

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083119\
 Data File : VX011942.D
 Acq On : 31 Aug 2019 10:58
 Operator : SY/SP
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA X/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

sam
 9/3/2019 12:52:13 PM

Quant Time: Sep 01 02:01:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 01:59:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	382229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	502074	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	454915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	270580	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	165413	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	
35) Dibromofluoromethane	5.48	113	165910	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
50) Toluene-d8	8.71	98	598730	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
62) 4-Bromofluorobenzene	11.14	95	241828	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	118942	51.559	ug/l	99
3) Chloromethane	1.31	50	122308	45.734	ug/l	99
4) Vinyl Chloride	1.39	62	127240	49.826	ug/l	97
5) Bromomethane	1.62	94	84203	47.655	ug/l	98
6) Chloroethane	1.71	64	80058	50.372	ug/l	99
7) Trichlorofluoromethane	1.92	101	236989	53.436	ug/l	100
8) Diethyl Ether	2.17	74	67058	43.996	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	156466	54.131	ug/l	98
10) Methyl Iodide	2.50	142	153652	48.785	ug/l	100
11) Tert butyl alcohol	3.03	59	69922	198.461	ug/l	99
12) 1,1-Dichloroethene	2.36	96	139934	52.125	ug/l	99
13) Acrolein	2.28	56	37853	215.861	ug/l	98
14) Allyl chloride	2.71	41	243379	48.329	ug/l	98
15) Acrylonitrile	3.12	53	181829	217.187	ug/l	99
16) Acetone	2.43	43	228443	289.926	ug/l	100
17) Carbon Disulfide	2.56	76	368124	47.807	ug/l	99
18) Methyl Acetate	2.76	43	90108	41.312	ug/l	96
19) Methyl tert-butyl Ether	3.18	73	396104	45.545	ug/l	98
20) Methylene Chloride	2.84	84	156278	46.100	ug/l	97
21) trans-1,2-Dichloroethene	3.15	96	159202	50.344	ug/l	97
22) Diisopropyl ether	3.84	45	479921	46.682	ug/l	99
23) Vinyl Acetate	3.80	43	1510868	228.584	ug/l	100
24) 1,1-Dichloroethane	3.68	63	278600	49.143	ug/l	99
25) 2-Butanone	4.65	43	273228	238.086	ug/l	99
26) 2,2-Dichloropropane	4.56	77	274332	57.694	ug/l	99
27) cis-1,2-Dichloroethene	4.58	96	185769	49.872	ug/l	99
28) Bromochloromethane	5.00	49	116813	45.919	ug/l	97
29) Tetrahydrofuran	5.11	42	151734	211.833	ug/l	99
30) Chloroform	5.19	83	298032	49.166	ug/l	97
31) Cyclohexane	5.56	56	227561	49.765	ug/l	98
32) 1,1,1-Trichloroethane	5.48	97	284872	52.905	ug/l	99
36) 1,1-Dichloropropene	5.78	75	220376	55.404	ug/l	99
37) Ethyl Acetate	4.81	43	106962	45.428	ug/l	99
38) Carbon Tetrachloride	5.77	117	265603	57.575	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083119\
 Data File : VX011942.D
 Acq On : 31 Aug 2019 10:58
 Operator : SY/SP
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA X/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

sam
 9/3/2019 12:52:13 PM

Quant Time: Sep 01 02:01:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 01:59:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	252359	53.265	ug/l	98
40) Benzene	6.13	78	617025	51.968	ug/l	98
41) Methacrylonitrile	5.02	41	65545	47.279	ug/l	98
42) 1,2-Dichloroethane	6.18	62	203162	50.317	ug/l	100
43) Isopropyl Acetate	6.43	43	220476	46.186	ug/l	99
44) Trichloroethene	7.20	130	199359	54.269	ug/l	98
45) 1,2-Dichloropropane	7.51	63	157086	50.580	ug/l	99
46) Dibromomethane	7.65	93	89612	48.619	ug/l	99
47) Bromodichloromethane	7.89	83	235487	51.523	ug/l	100
48) Methyl methacrylate	7.76	41	107741	46.387	ug/l	99
49) 1,4-Dioxane	7.73	88	28068	878.775	ug/l	98
51) 4-Methyl-2-Pentanone	8.64	43	554076	228.479	ug/l	100
52) Toluene	8.78	92	415042	52.839	ug/l	99
53) t-1,3-Dichloropropene	9.03	75	237905	50.816	ug/l	98
54) cis-1,3-Dichloropropene	8.43	75	268728	51.133	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	132836	49.229	ug/l	98
56) Ethyl methacrylate	9.17	69	177846	47.489	ug/l	99
57) 1,3-Dichloropropane	9.37	76	219749	49.066	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	448753	251.585	ug/l	98
59) 2-Hexanone	9.48	43	418540	242.968	ug/l	99
60) Dibromochloromethane	9.57	129	184916	51.024	ug/l	100
61) 1,2-Dibromoethane	9.67	107	131203	49.043	ug/l	99
64) Tetrachloroethene	9.33	164	196805	53.782	ug/l	98
65) Chlorobenzene	10.14	112	476994	54.108	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.21	131	194831	54.652	ug/l	99
67) Ethyl Benzene	10.25	91	833343	55.573	ug/l	99
68) m/p-Xylenes	10.36	106	646937	111.729	ug/l	100
69) o-Xylene	10.70	106	309109	54.783	ug/l	100
70) Styrene	10.71	104	542551	54.554	ug/l	100
71) Bromoform	10.85	173	131704	52.248	ug/l #	100
73) Isopropylbenzene	11.01	105	865796	55.689	ug/l	100
74) N-amyl acetate	10.89	43	214023	46.388	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.26	83	153209	48.152	ug/l	98
76) 1,2,3-Trichloropropane	11.29	75	115994m	43.579	ug/l	
77) Bromobenzene	11.25	156	239969	53.220	ug/l	98
78) n-propylbenzene	11.35	91	988884	56.092	ug/l	99
79) 2-Chlorotoluene	11.42	91	576917	54.367	ug/l	99
80) 1,3,5-Trimethylbenzene	11.50	105	740552	55.185	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	52347	49.406	ug/l	99
82) 4-Chlorotoluene	11.51	91	691382	54.006	ug/l	99
83) tert-Butylbenzene	11.76	119	775157	56.928	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	743908	54.092	ug/l	100
85) sec-Butylbenzene	11.94	105	889716	56.255	ug/l	99
86) p-Isopropyltoluene	12.06	119	867610	56.573	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	455918	54.406	ug/l	100
88) 1,4-Dichlorobenzene	12.09	146	455812	53.805	ug/l	100
89) n-Butylbenzene	12.39	91	763445	56.267	ug/l	99
90) Hexachloroethane	12.59	117	163213	55.011	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	411022	52.755	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.99	75	30818	48.624	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083119\
Data File : VX011942.D
Acq On : 31 Aug 2019 10:58
Operator : SY/SP
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA X/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

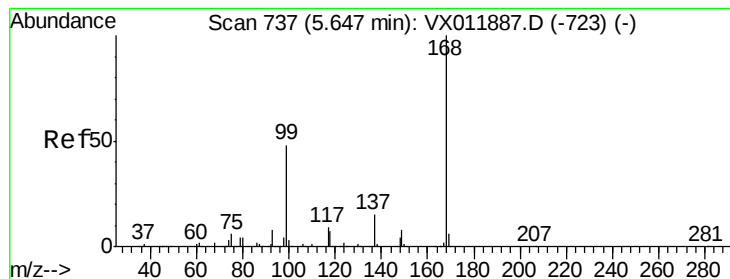
Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM

Quant Time: Sep 01 02:01:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 30 01:59:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	358490	54.646	ug/l	100
94) Hexachlorobutadiene	13.78	225	249238	56.889	ug/l	99
95) Naphthalene	13.83	128	563527	50.052	ug/l	100
96) 1,2,3-Trichlorobenzene	14.01	180	316576	53.364	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 382229

Ion Ratio Lower Upper

168 100

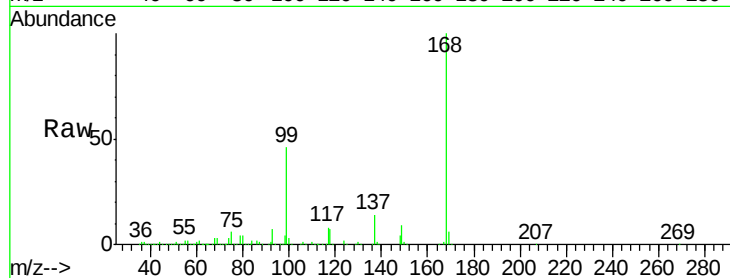
99 45.3 38.4 57.6

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

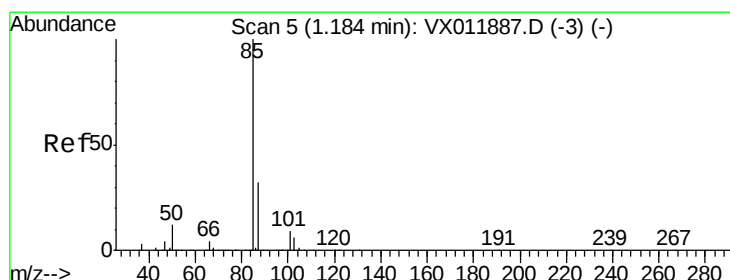
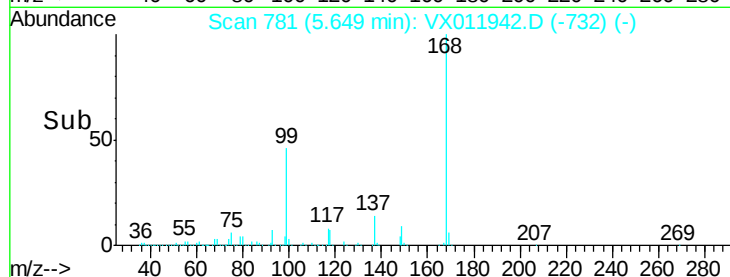
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 51.559 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX011942.D

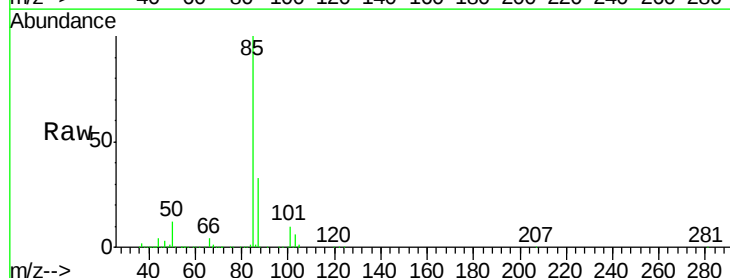
Acq: 31 Aug 2019 10:58

Tgt Ion: 85 Resp: 118942

Ion Ratio Lower Upper

85 100

87 32.7 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

120000

100000

80000

60000

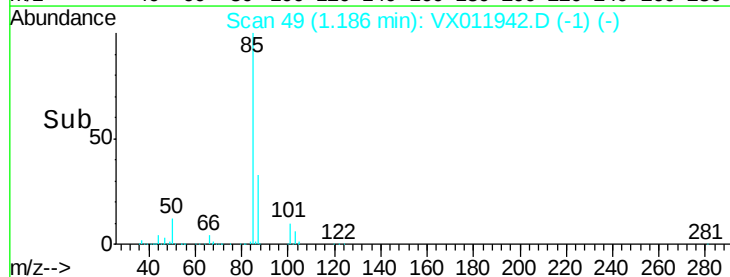
40000

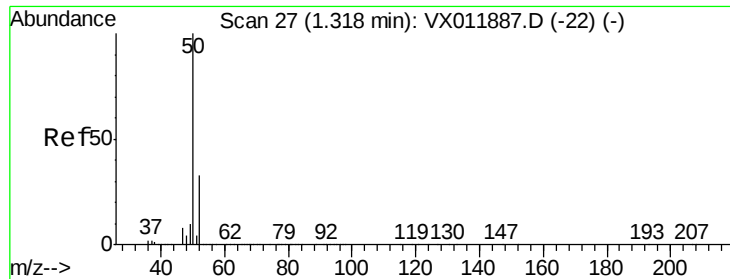
20000

0

1.10 1.20 1.30

Time-->





#3

Chloromethane

Concen: 45.734 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050

Tot Ion: 50 Resp: 122308

Ion Ratio Lower Upper

50 100

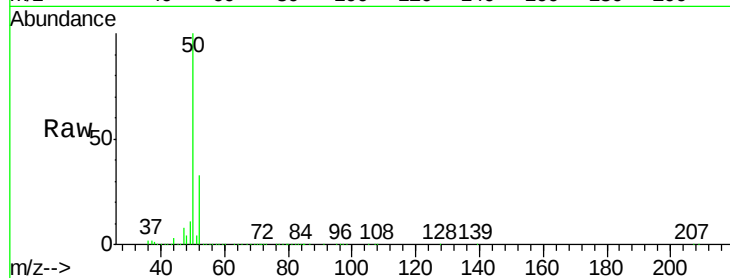
52 33.0 26.0 39.0

Manual Integrations

APPROVED

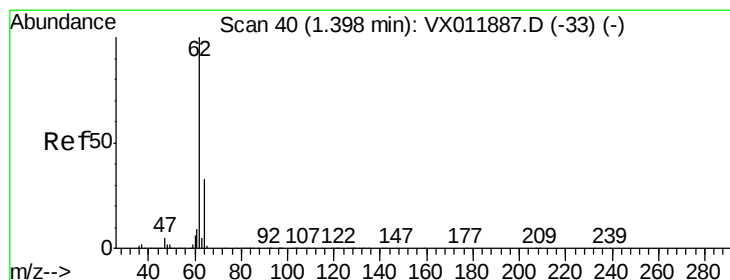
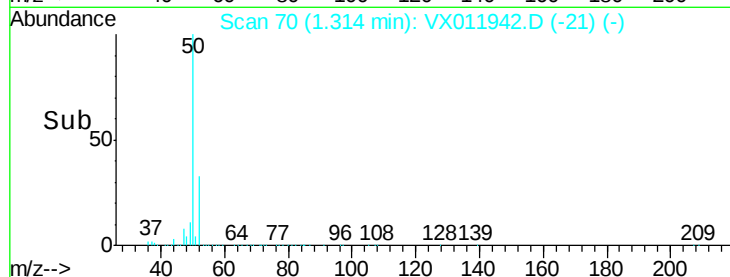
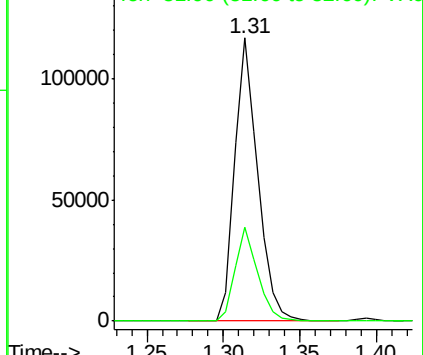
sam

9/3/2019 12:52:13 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 49.826 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX011942.D

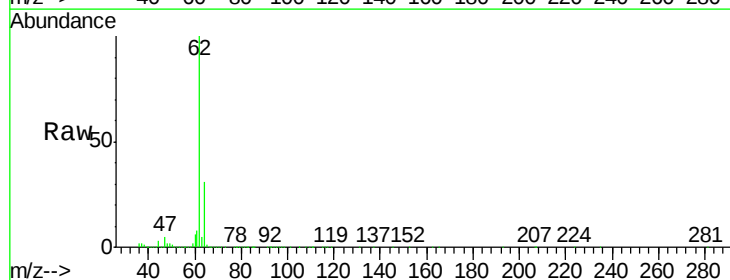
Acq: 31 Aug 2019 10:58

Tgt Ion: 62 Resp: 127240

Ion Ratio Lower Upper

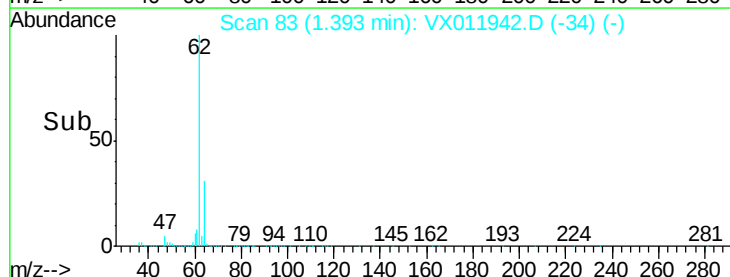
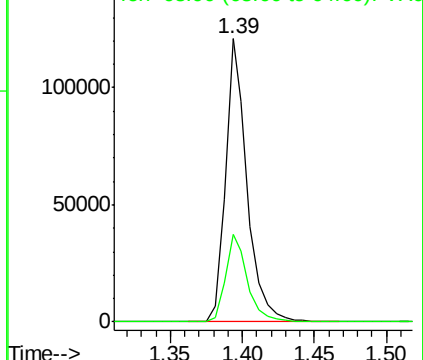
62 100

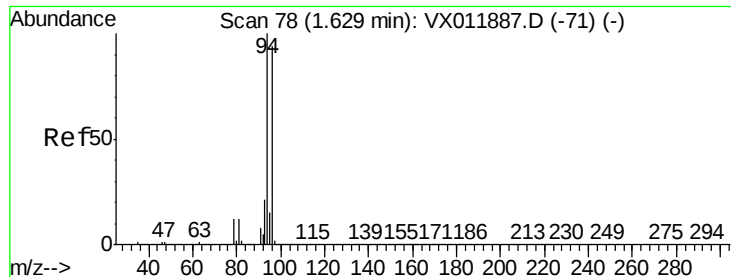
64 30.9 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 47.655 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 84203

Ion Ratio Lower Upper

94 100

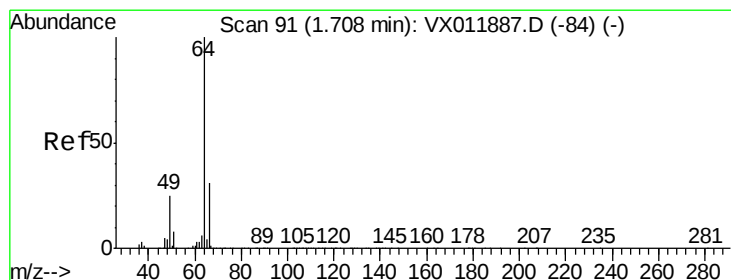
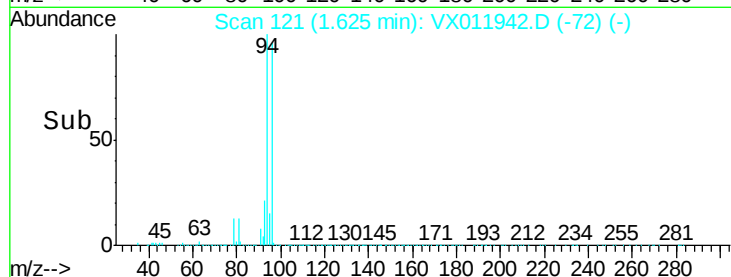
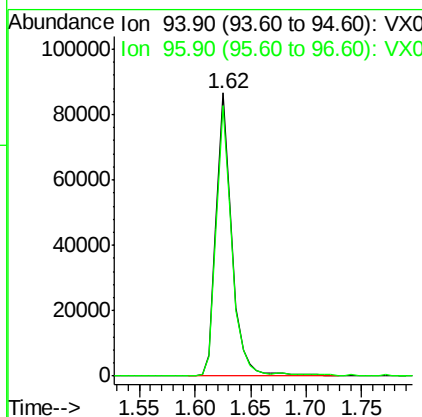
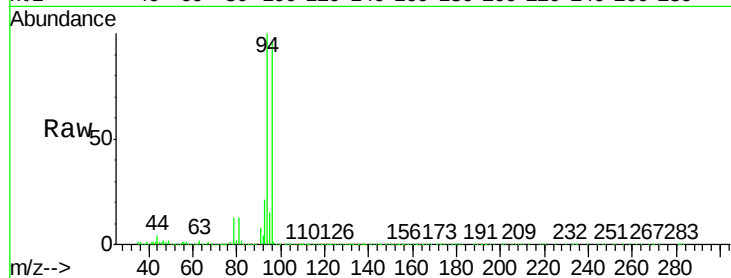
96 95.8 75.0 112.6

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



#6

Chloroethane

Concen: 50.372 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX011942.D

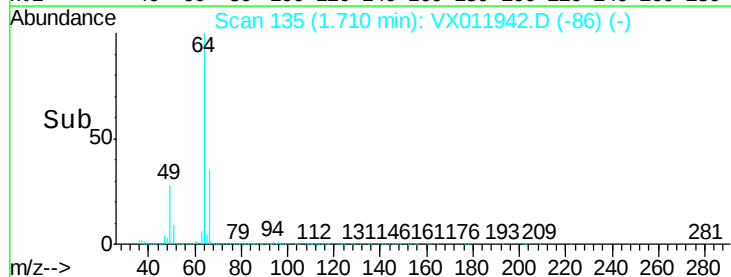
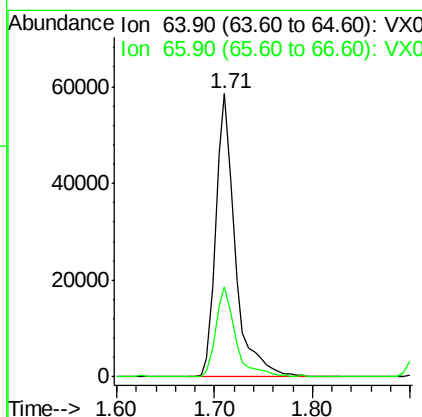
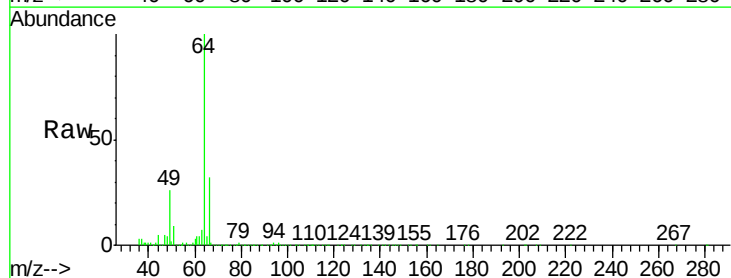
Acq: 31 Aug 2019 10:58

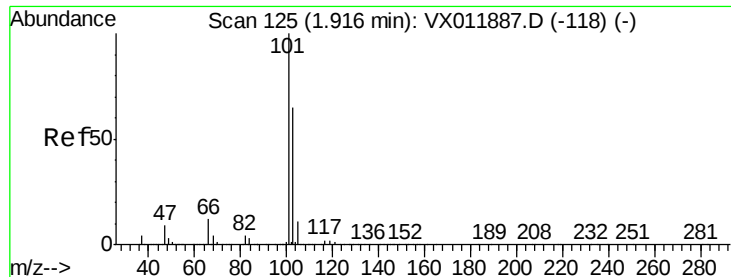
Tgt Ion: 64 Resp: 80058

Ion Ratio Lower Upper

64 100

66 31.7 25.0 37.4





#7

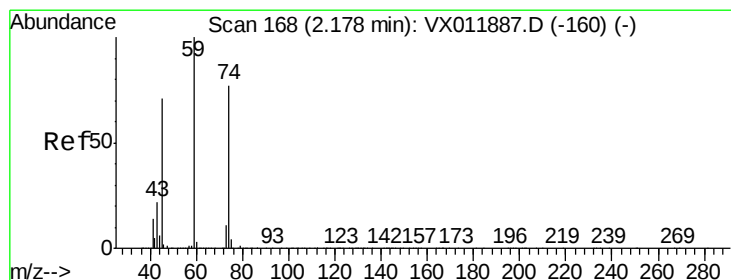
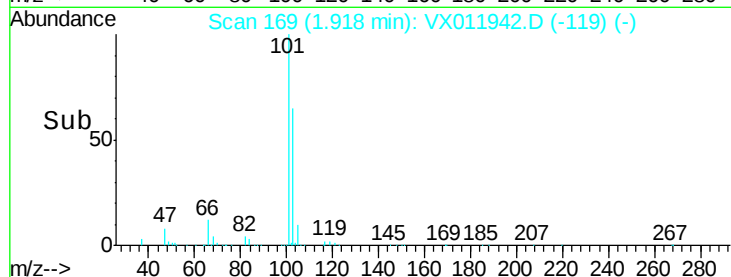
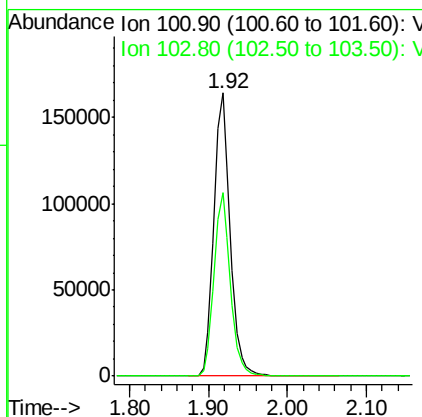
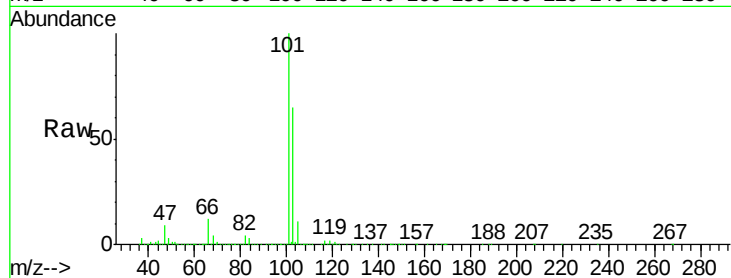
Trichlorofluoromethane
 Concen: 53.436 ug/l
 RT: 1.92 min Scan# 169
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	236989		
103	64.6	51.6	77.4	

Manual Integrations
 APPROVED

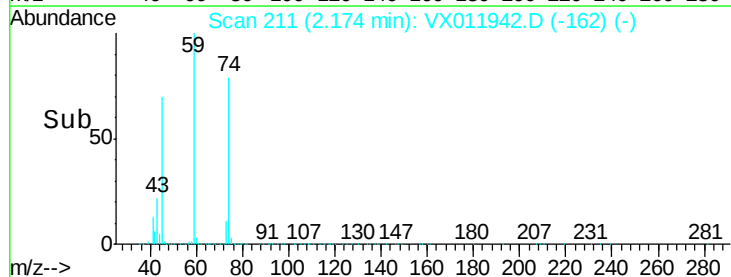
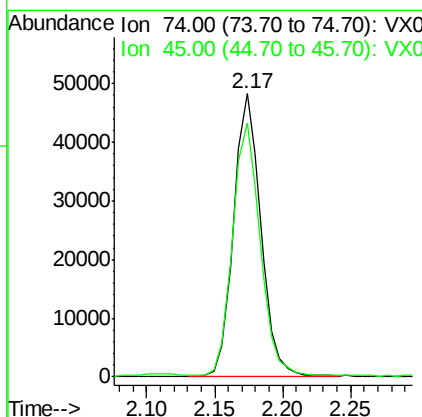
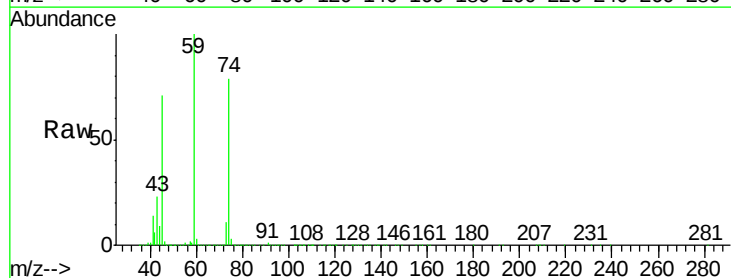
sam
 9/3/2019 12:52:13 PM

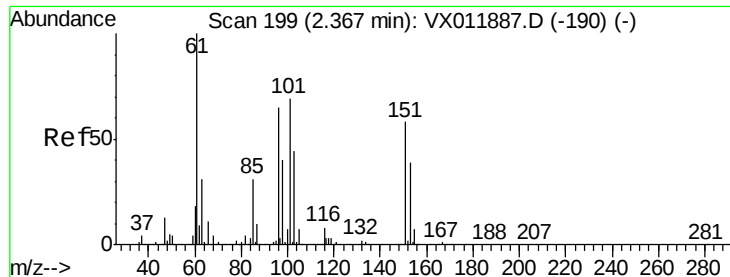


#8

Diethyl Ether
 Concen: 43.996 ug/l
 RT: 2.17 min Scan# 211
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	67058		
45	92.1	46.7	140.1	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.131 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

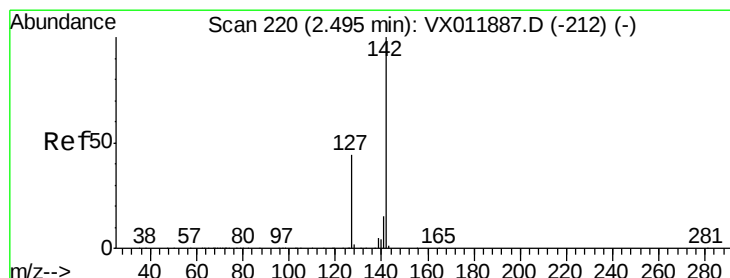
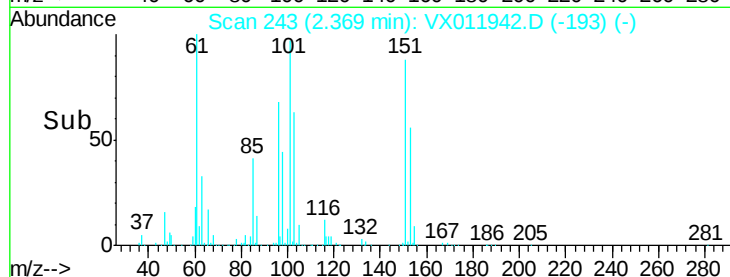
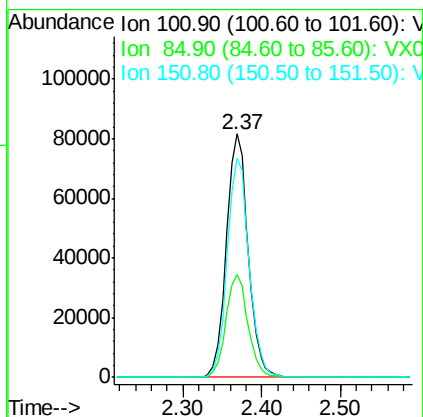
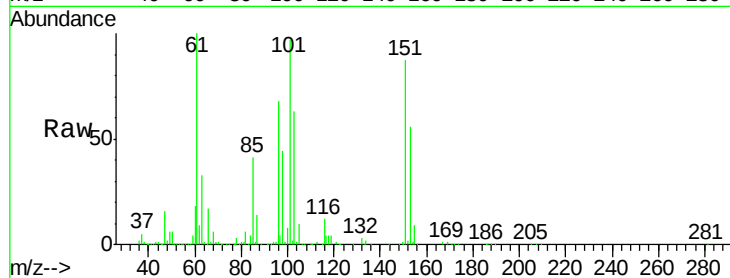
ClientSampled :

VSTDCCC050

Tot Ion:	101	Resp:	156466
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.9	52.3
151	90.3	70.9	106.3

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#10

Methyl Iodide

Concen: 48.785 ug/l

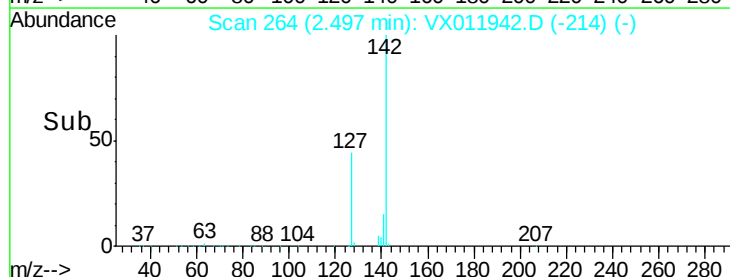
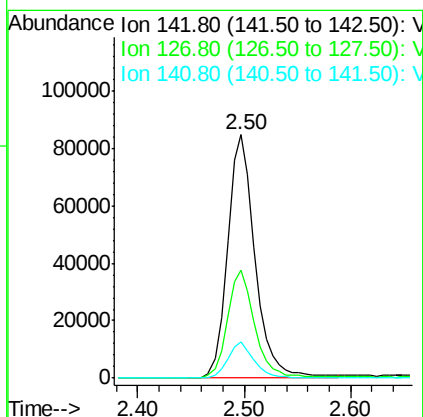
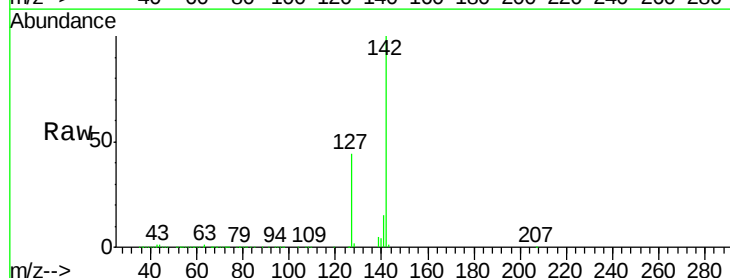
RT: 2.50 min Scan# 264

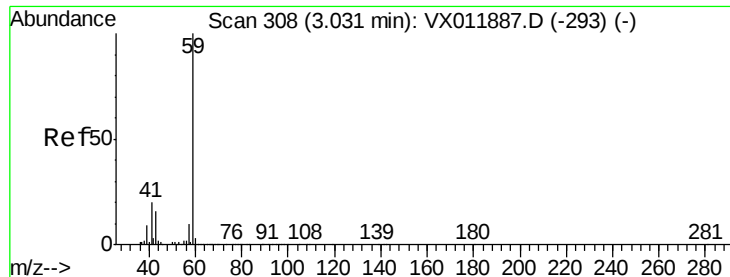
Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	142	Resp:	153652
Ion Ratio	Lower	Upper	
142	100		
127	44.5	35.7	53.5
141	14.5	11.8	17.6





#11

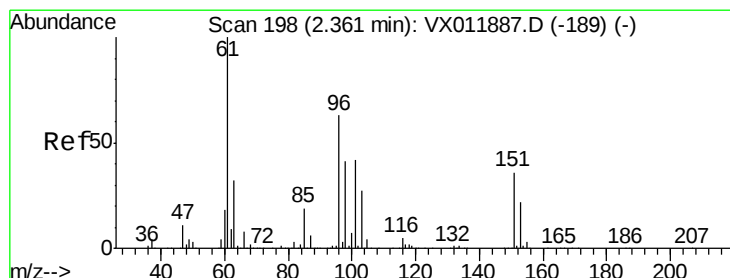
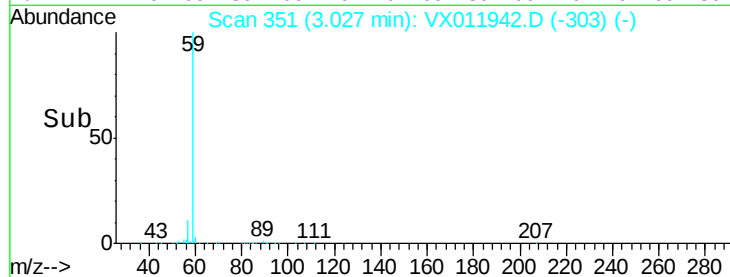
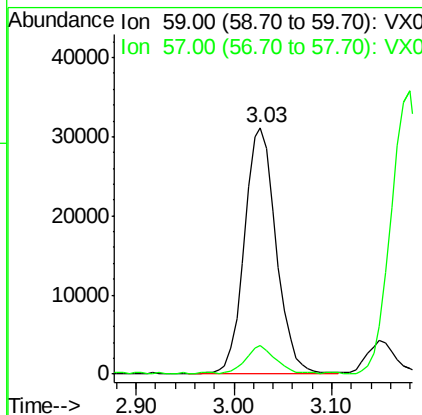
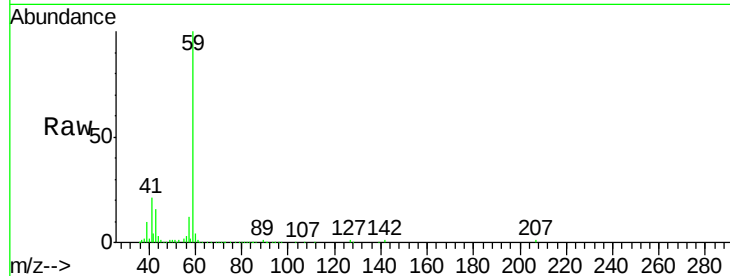
Tert butyl alcohol
 Concen: 198.461 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	69922
Ion Ratio	100	Lower	Upper
57	10.4	8.6	12.8

Manual Integrations
 APPROVED

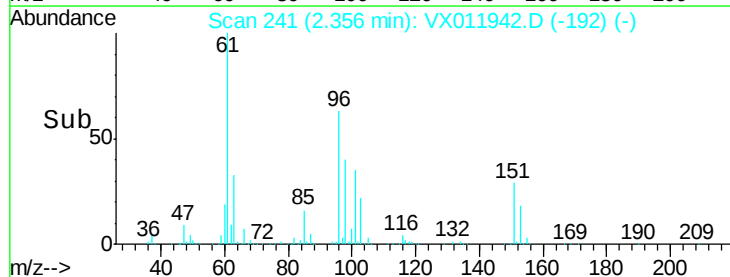
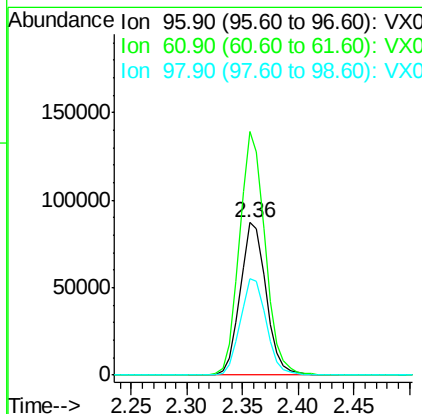
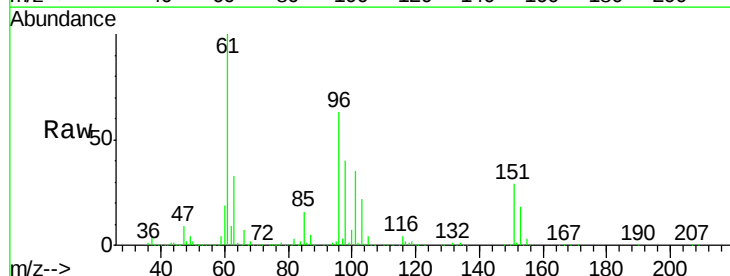
sam
 9/3/2019 12:52:13 PM

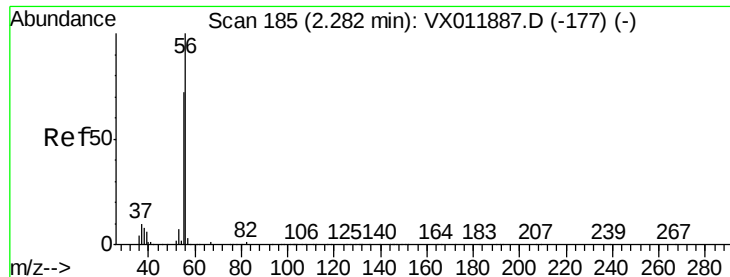


#12

1,1-Dichloroethene
 Concen: 52.125 ug/l
 RT: 2.36 min Scan# 241
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	96	Resp	139934
Ion Ratio	100	Lower	Upper
61	159.7	126.6	190.0
98	63.7	51.6	77.4





#13

Acrolein

Concen: 215.861 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 37853

Ion Ratio Lower Upper

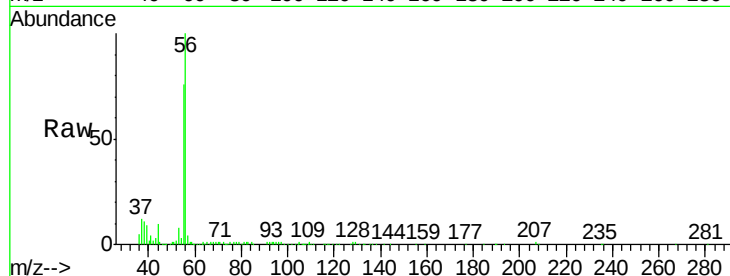
56 100

55 72.0 58.6 88.0

Manual Integrations
APPROVED

sam

9/3/2019 12:52:13 PM



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

25000

20000

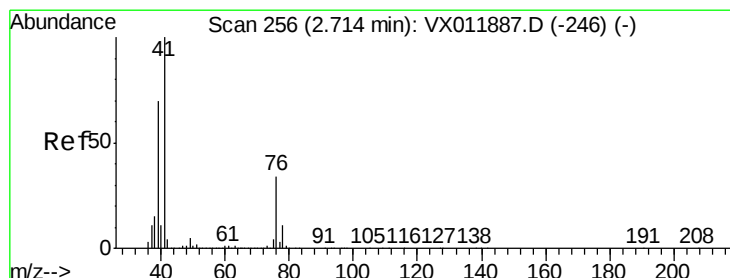
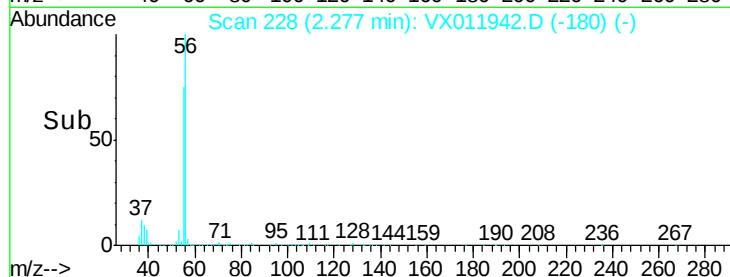
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 48.329 ug/l

RT: 2.71 min Scan# 299

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

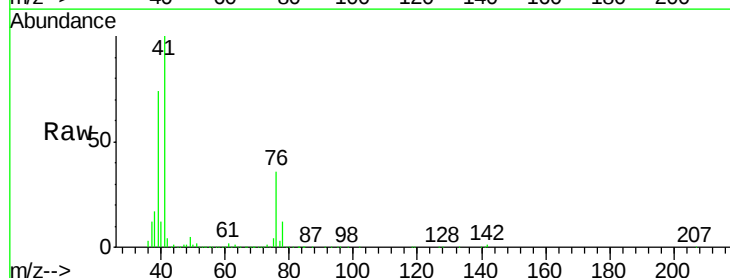
Tgt Ion: 41 Resp: 243379

Ion Ratio Lower Upper

41 100

39 70.9 55.0 82.6

76 34.9 27.0 40.4



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

250000

200000

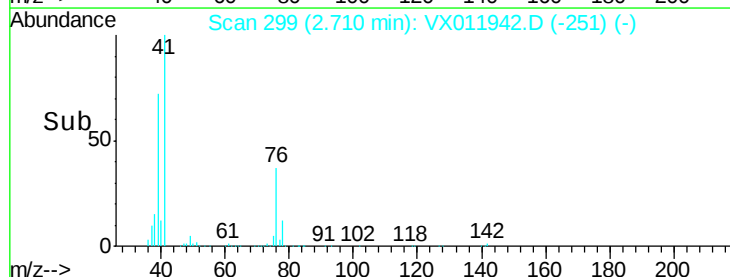
150000

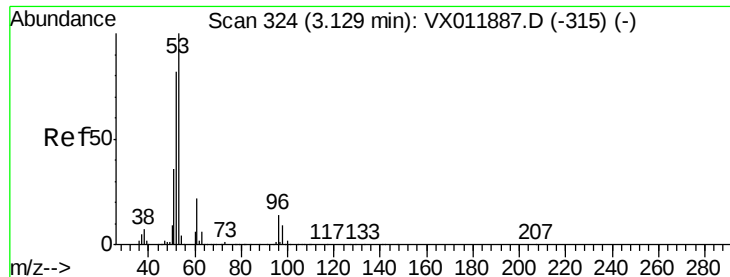
100000

50000

0

Time-->





#15

Acrylonitrile

Concen: 217.187 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

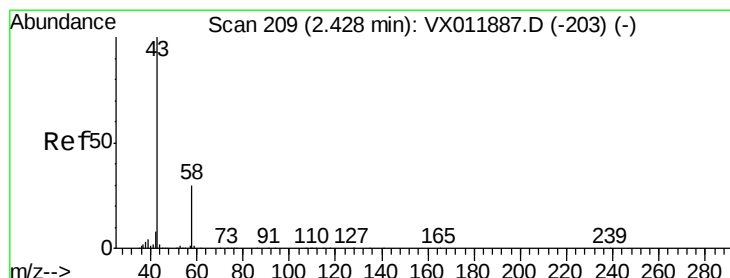
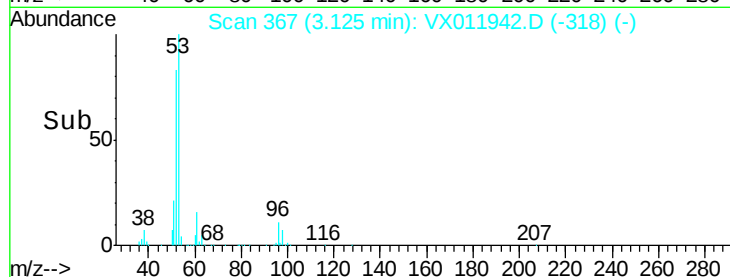
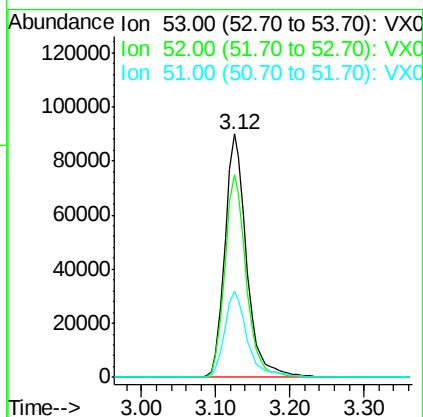
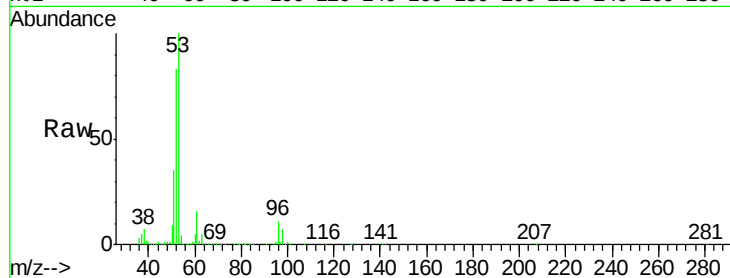
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	181829
Ion Ratio		Lower	Upper
53	100		
52	82.4	65.3	97.9
51	37.3	29.4	44.2

Manual Integrations
APPROVED

Sam
9/3/2019 12:52:13 PM



#16

Acetone

Concen: 289.926 ug/l

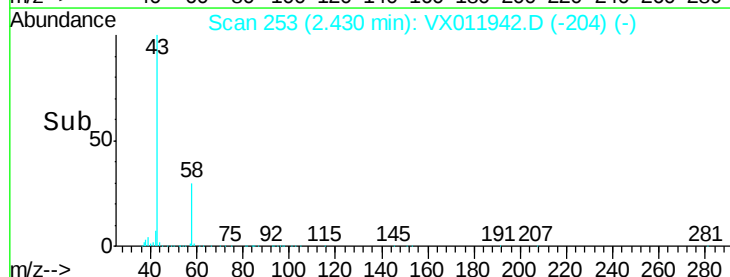
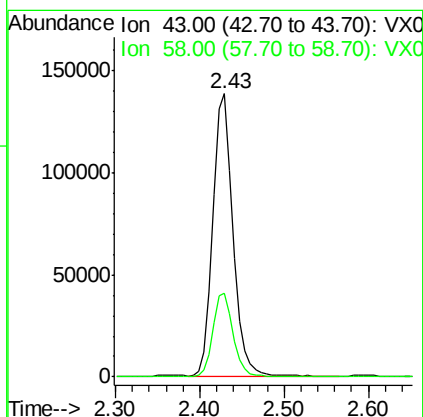
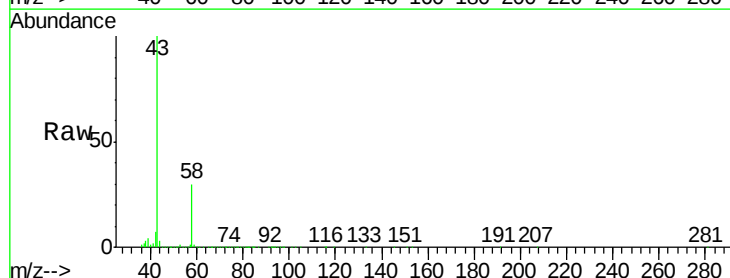
RT: 2.43 min Scan# 253

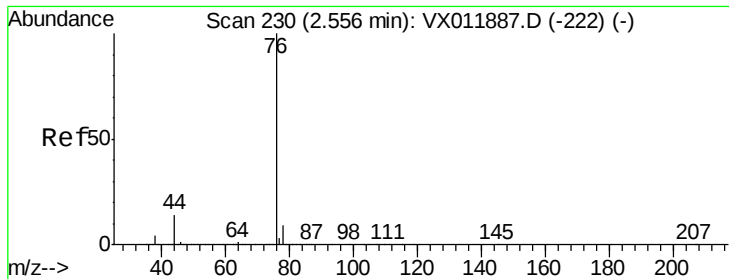
Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	43	Resp:	228443
Ion Ratio		Lower	Upper
43	100		
58	29.7	23.8	35.8





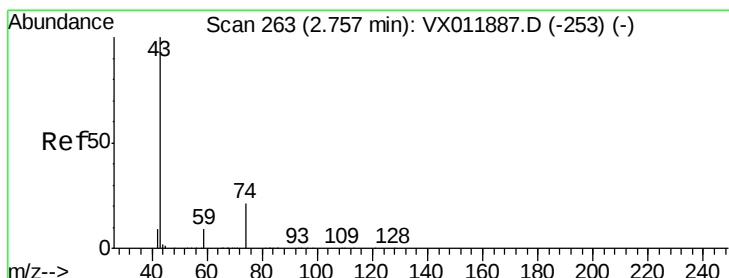
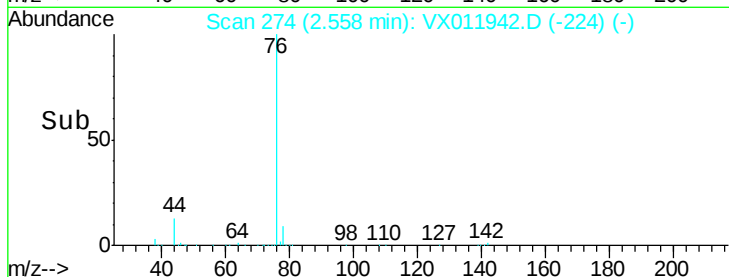
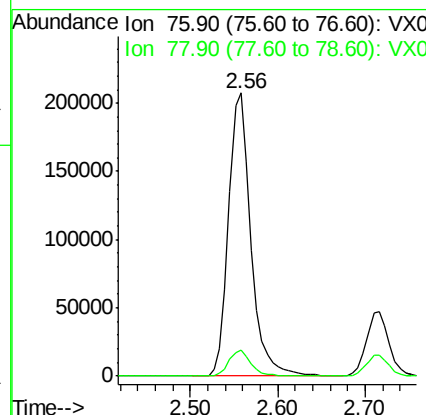
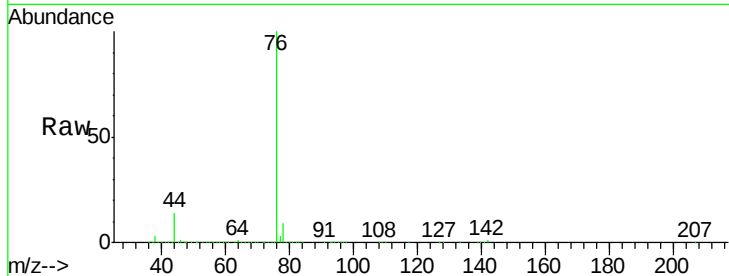
#17
Carbon Disulfide
Concen: 47.807 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

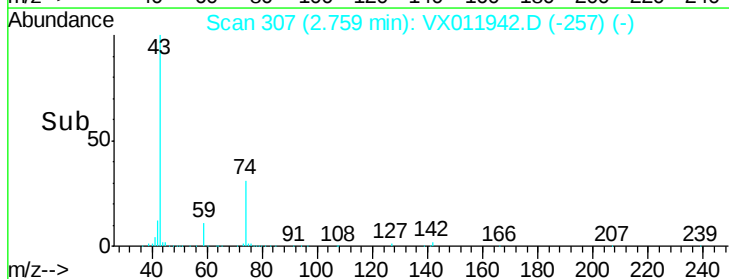
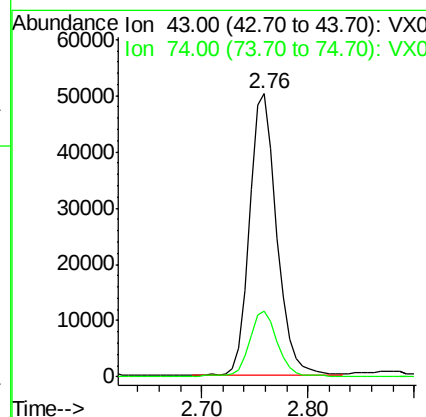
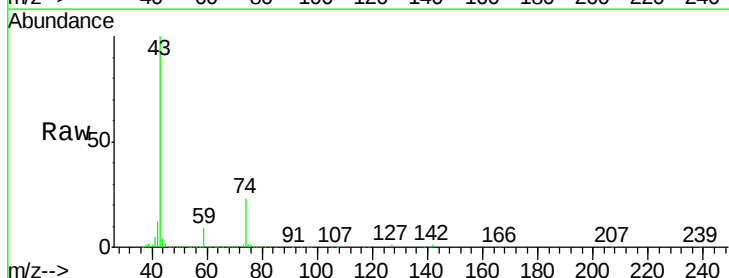
Manual Integrations
APPROVED

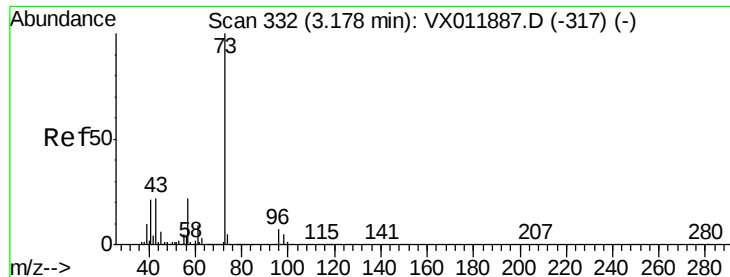
sam
9/3/2019 12:52:13 PM



#18
Methyl Acetate
Concen: 41.312 ug/l
RT: 2.76 min Scan# 307
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	18.4	27.6





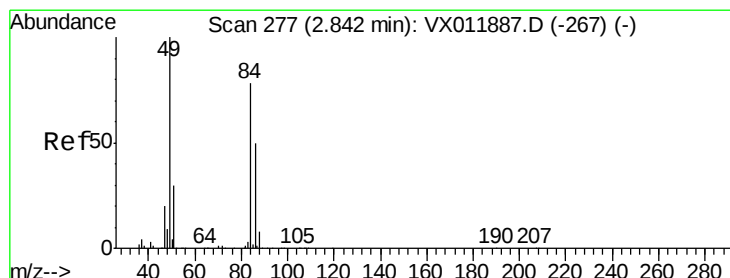
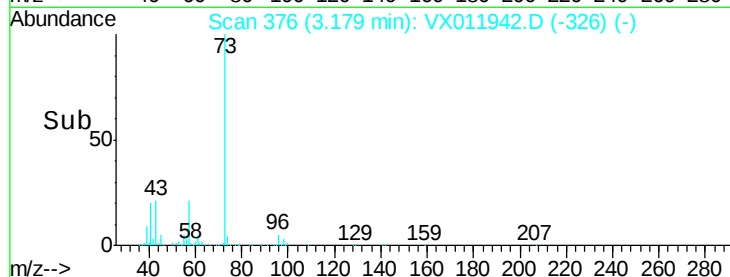
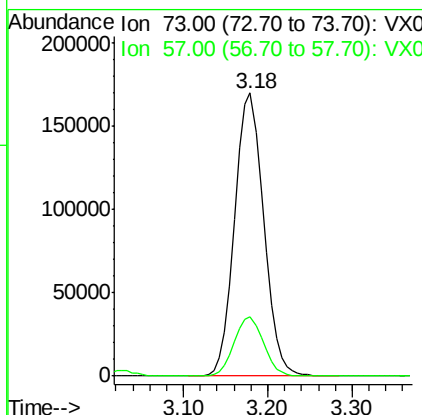
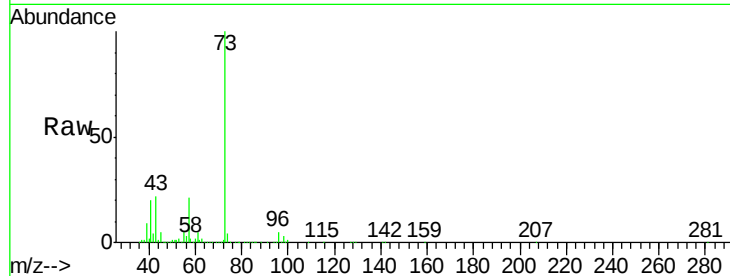
#19
Methvl tert-butvl Ether
Concen: 45.545 ug/l
RT: 3.18 min Scan# 376
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.0

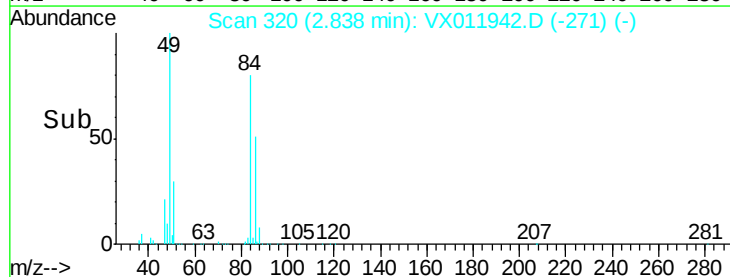
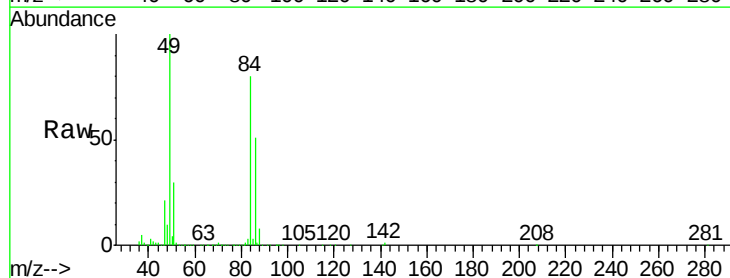
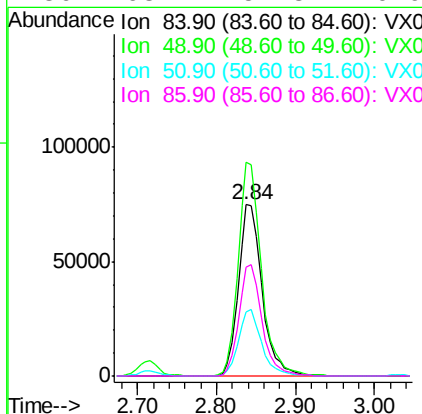
Manual Integrations
APPROVED

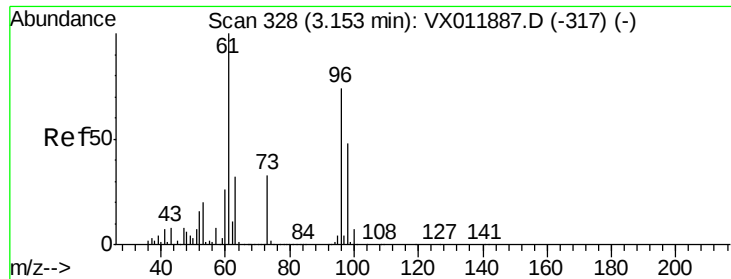
sam
9/3/2019 12:52:13 PM



#20
Methylene Chloride
Concen: 46.100 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.6	103.0	154.4
51	37.3	30.8	46.2
86	63.2	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 50.344 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

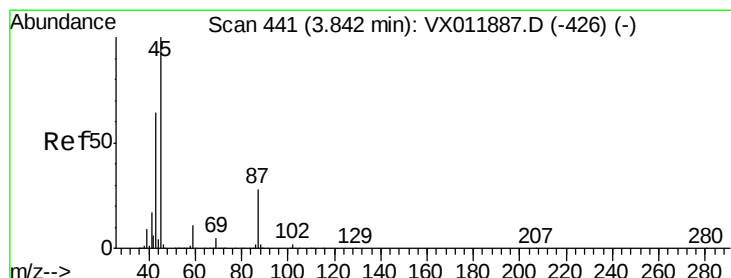
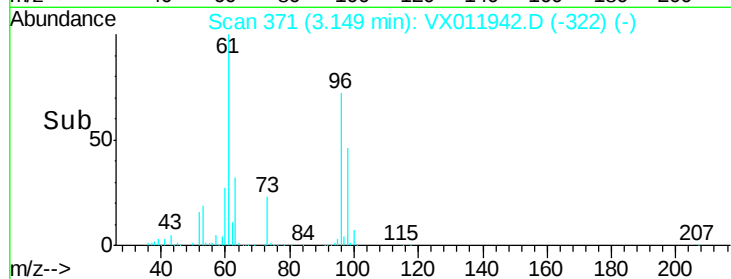
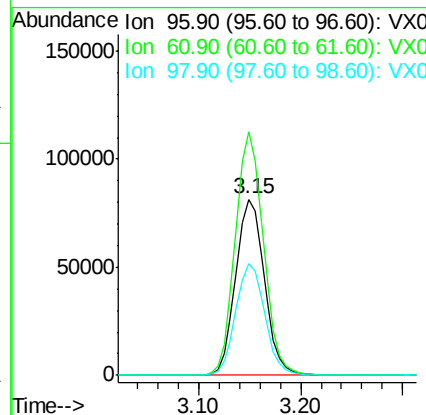
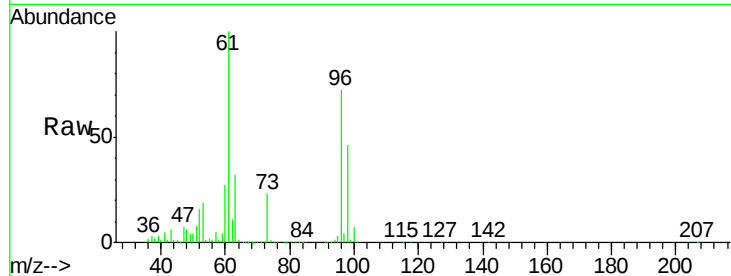
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	159202
Ion	Ratio	Lower	Upper
96	100		
61	138.5	107.4	161.2
98	63.9	51.4	77.2

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#22

Diisopropyl ether

Concen: 46.682 ug/l

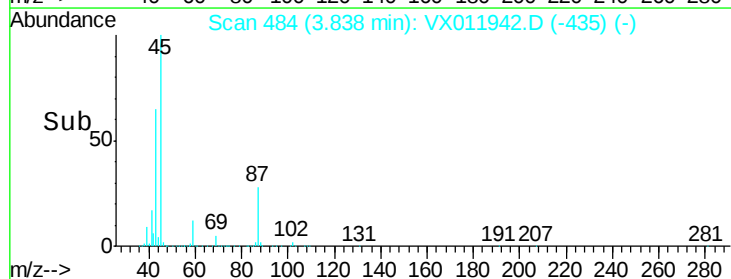
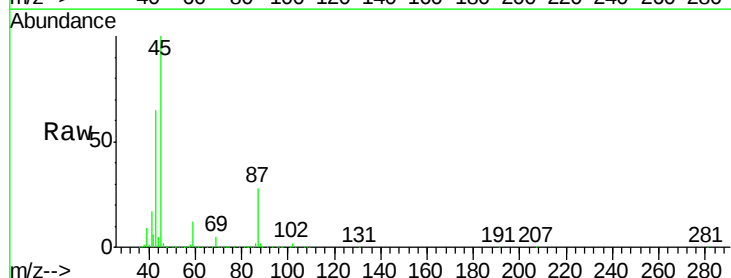
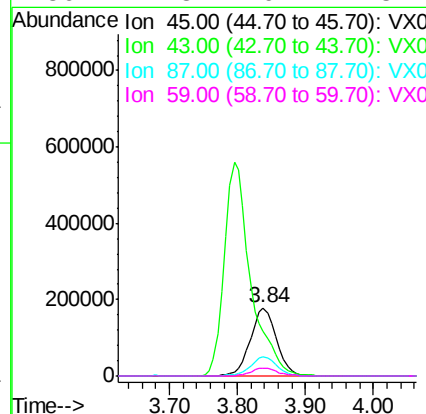
RT: 3.84 min Scan# 484

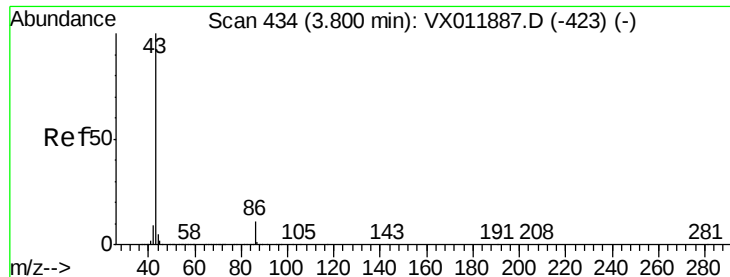
Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	45	Resp:	479921
Ion	Ratio	Lower	Upper
45	100		
43	65.0	51.0	76.6
87	28.1	22.0	33.0
59	11.8	9.1	13.7





#23

Vinyl Acetate

Concen: 228.584 ug/l

RT: 3.80 min Scan# 477

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1510868

Ion Ratio Lower Upper

43 100

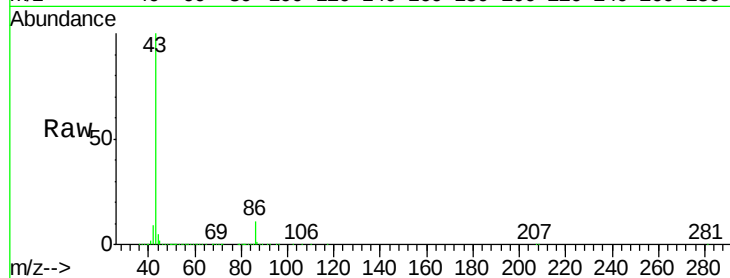
86 10.8 8.6 12.8

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

600000

500000

400000

300000

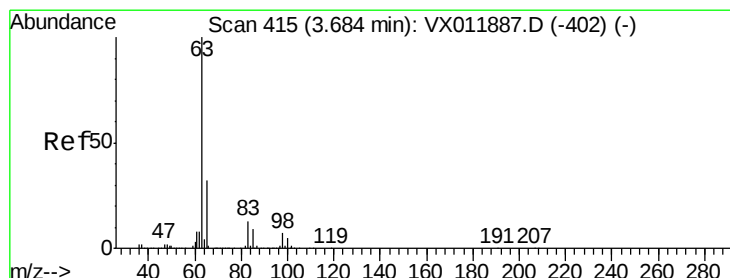
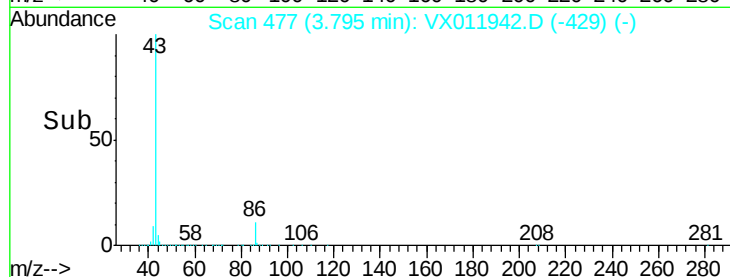
200000

100000

0

3.70 3.80 3.90 4.00

Time-->



#24

1,1-Dichloroethane

Concen: 49.143 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

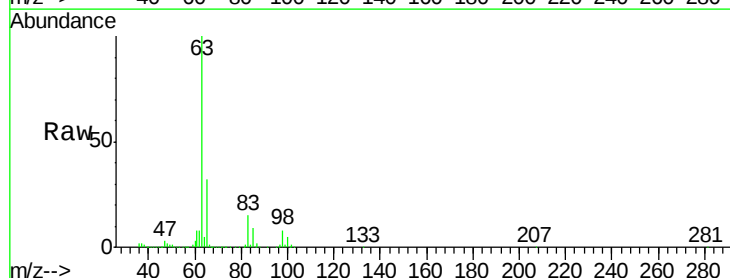
Tgt Ion: 63 Resp: 278600

Ion Ratio Lower Upper

63 100

98 7.7 3.8 11.2

100 5.1 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

150000

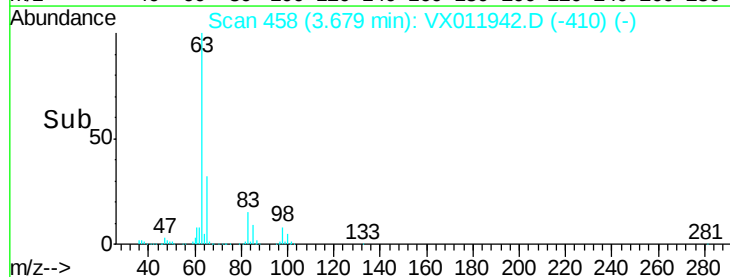
100000

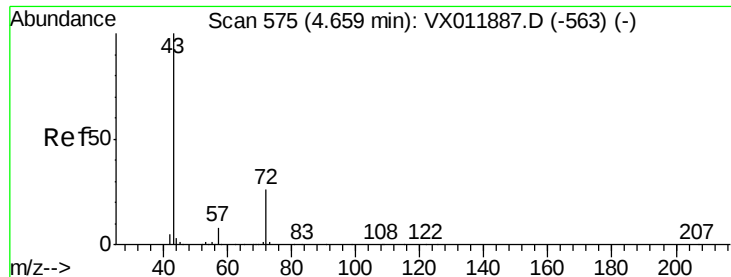
50000

0

3.50 3.60 3.70 3.80

Time-->





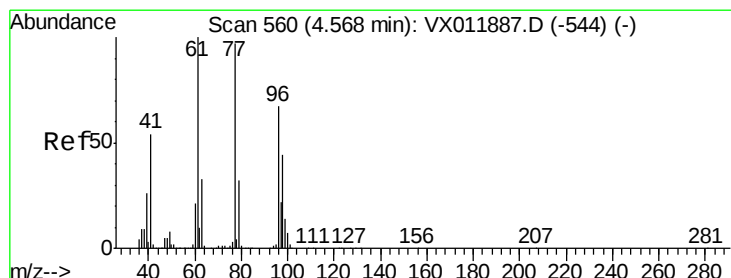
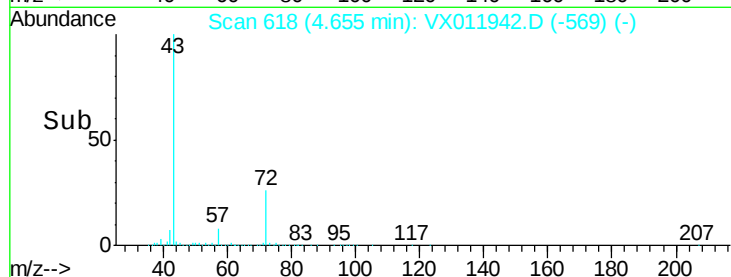
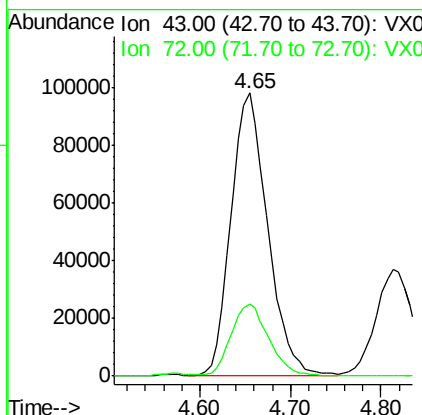
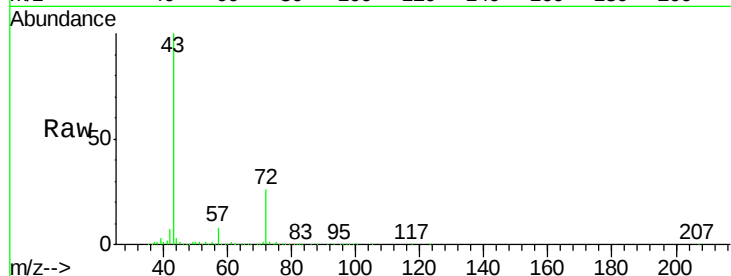
#25
2-Butanone
Concen: 238.086 ug/l
RT: 4.65 min Scan# 618
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 273228
Ion Ratio Lower Upper
43 100
72 25.6 21.0 31.4

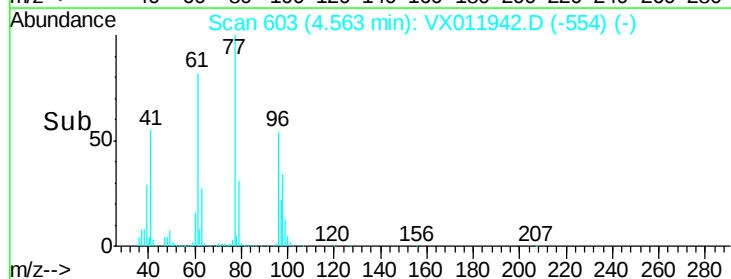
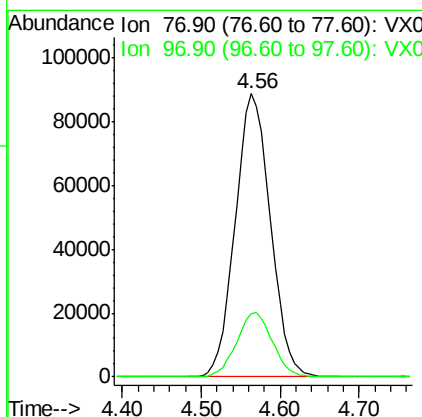
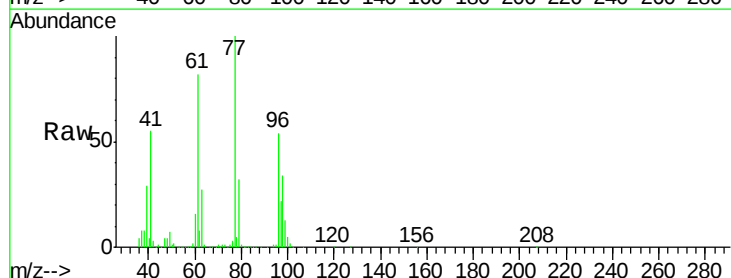
Manual Integrations
APPROVED

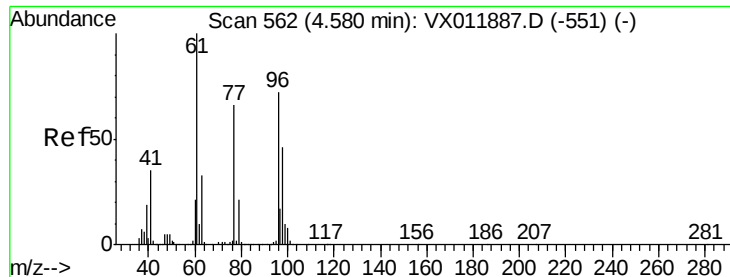
sam
9/3/2019 12:52:13 PM



#26
2,2-Dichloropropane
Concen: 57.694 ug/l
RT: 4.56 min Scan# 603
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion: 77 Resp: 274332
Ion Ratio Lower Upper
77 100
97 23.1 11.7 35.1





#27

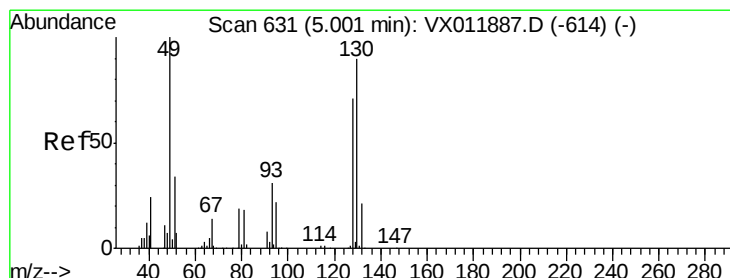
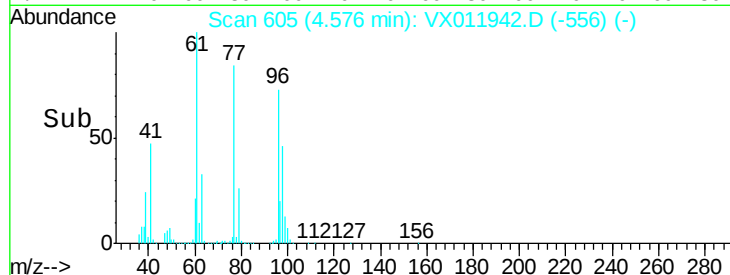
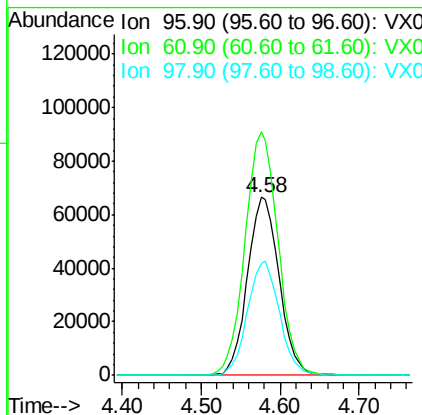
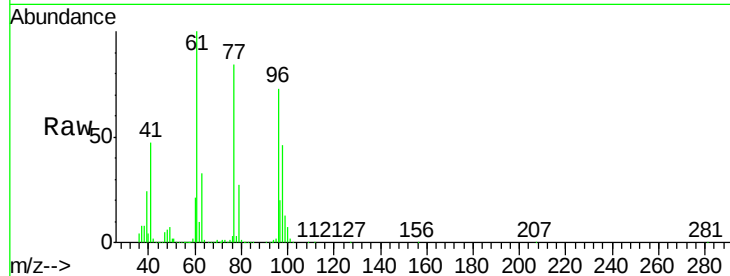
cis-1,2-Dichloroethene
Concen: 49.872 ug/l
RT: 4.58 min Scan# 605
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	185769		
61	142.8	0.0	283.8	
98	64.6	0.0	131.2	

Manual Integrations
APPROVED

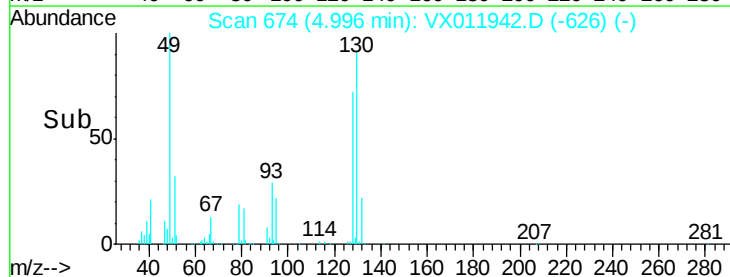
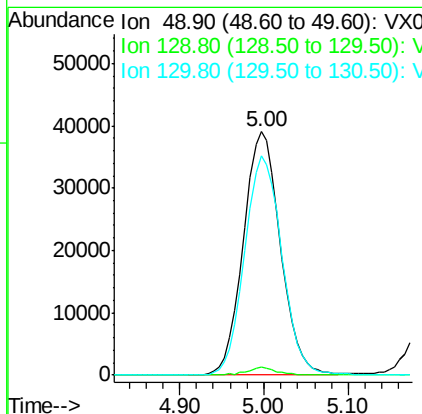
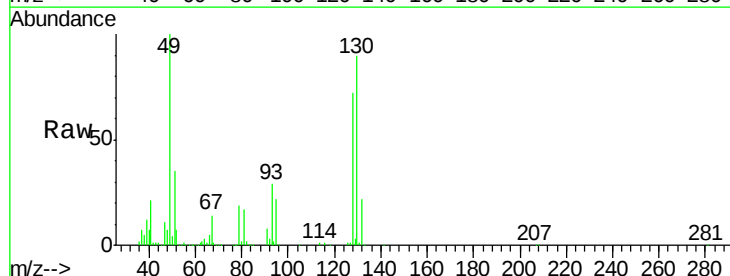
sam
9/3/2019 12:52:13 PM

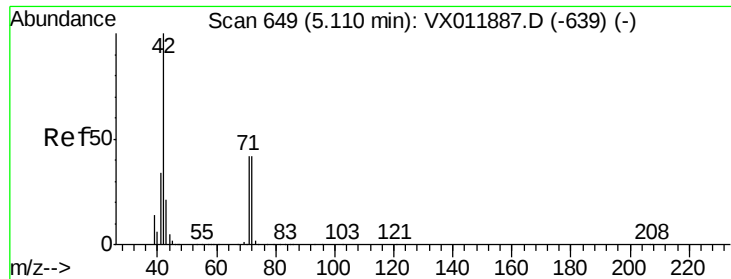


#28

Bromochloromethane
Concen: 45.919 ug/l
RT: 5.00 min Scan# 674
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	116813		
129	2.5	0.0	4.8	
130	90.8	70.6	105.8	





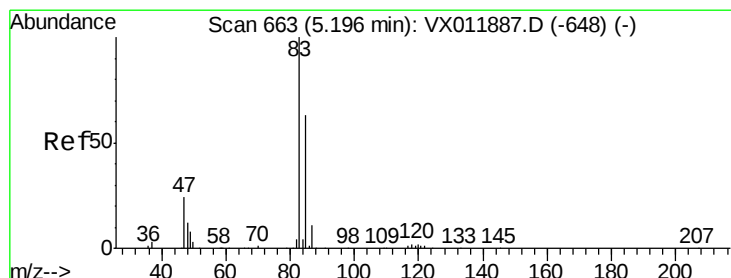
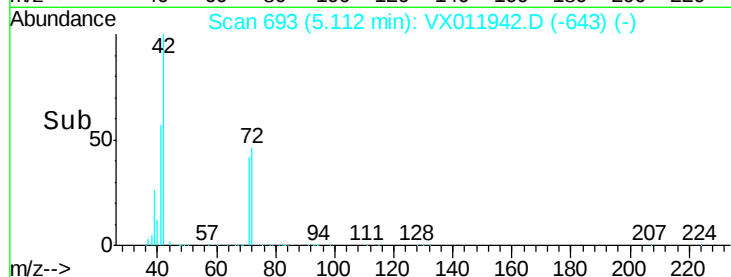
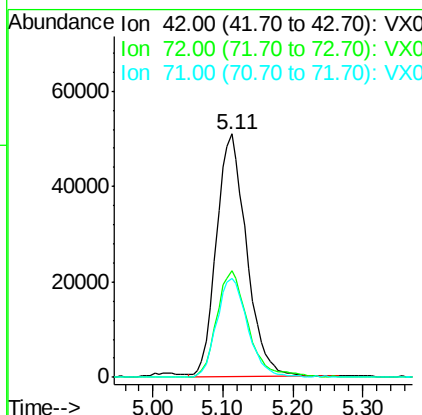
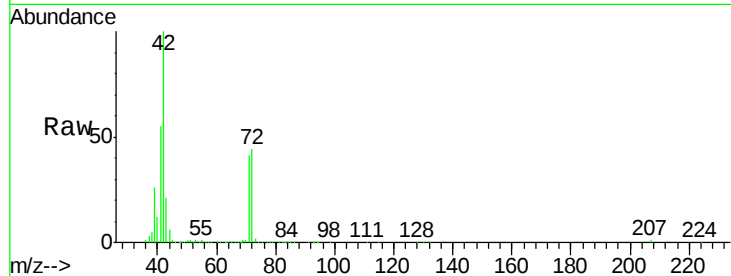
#29
Tetrahydrofuran
Concen: 211.833 ug/l
RT: 5.11 min Scan# 693
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.2	54.4
71	41.4	33.1	49.7

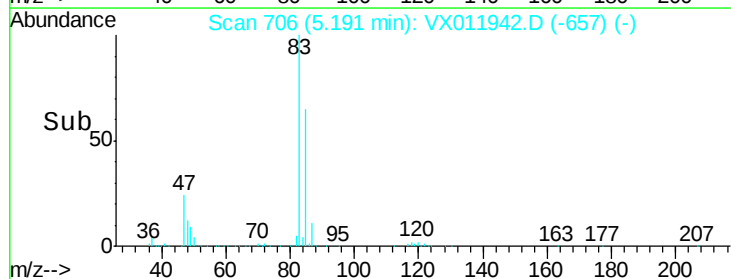
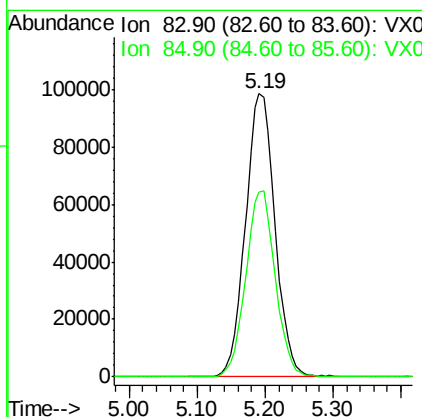
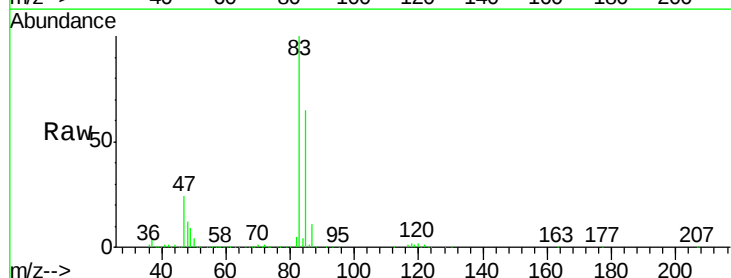
Manual Integrations
APPROVED

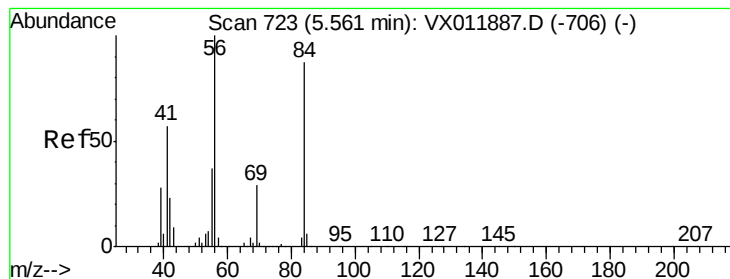
sam
9/3/2019 12:52:13 PM



#30
Chloroform
Concen: 49.166 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.6	75.8





#31

Cvclohexane

Concen: 49.765 ug/l

RT: 5.56 min Scan# 767

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

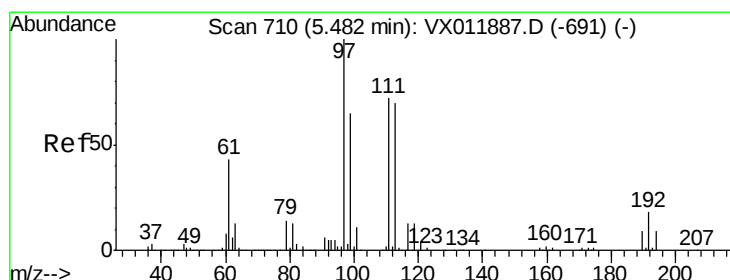
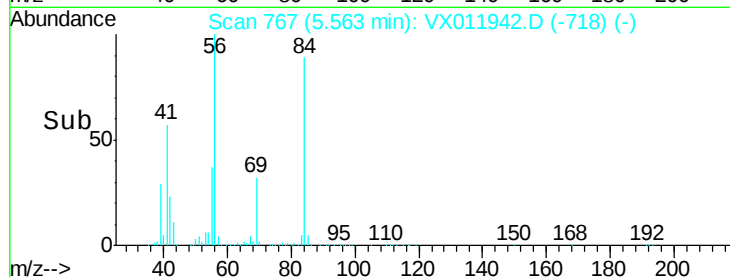
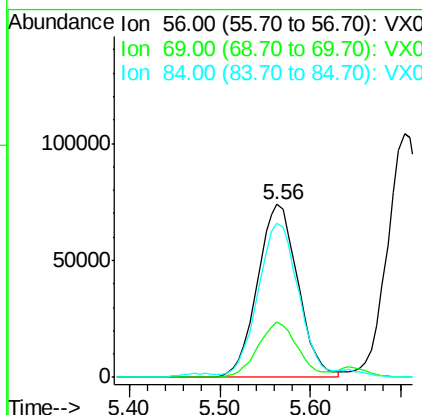
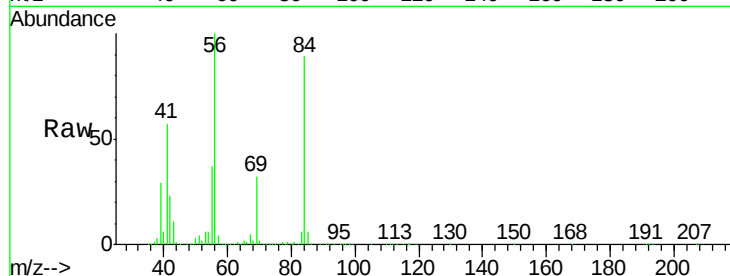
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	227561
Ion Ratio	Lower	Upper	
56	100		
69	31.9	23.1	34.7
84	87.5	69.6	104.4

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#32

1,1,1-Trichloroethane

Concen: 52.905 ug/l

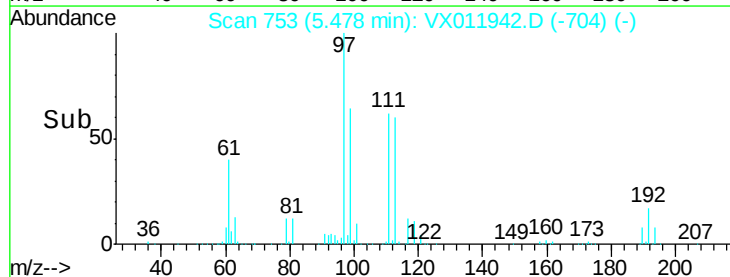
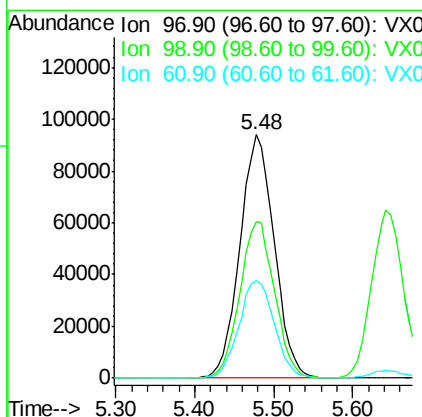
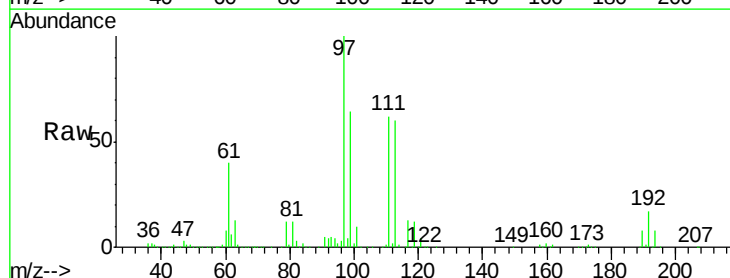
RT: 5.48 min Scan# 753

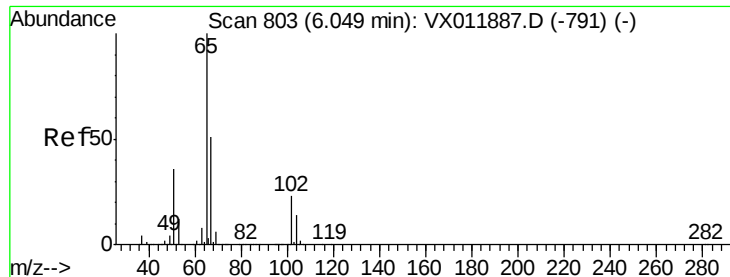
Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	97	Resp:	284872
Ion Ratio	Lower	Upper	
97	100		
99	65.0	51.8	77.8
61	41.6	33.8	50.6





#33

1,2-Dichloroethane-d4

Concen: 45.168 ug/l

RT: 6.04 min Scan# 846

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 165413

Ion Ratio Lower Upper

65 100

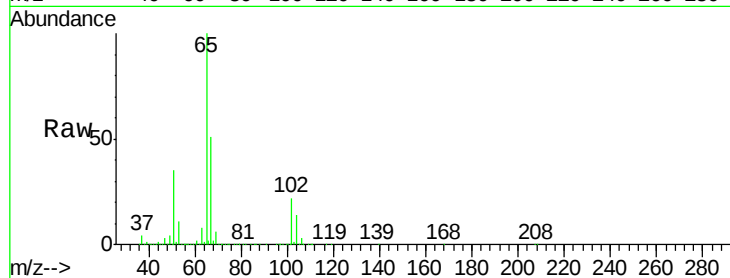
67 50.6 0.0 102.2

Manual Integrations

APPROVED

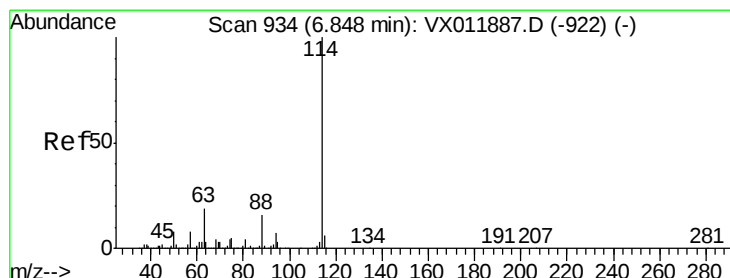
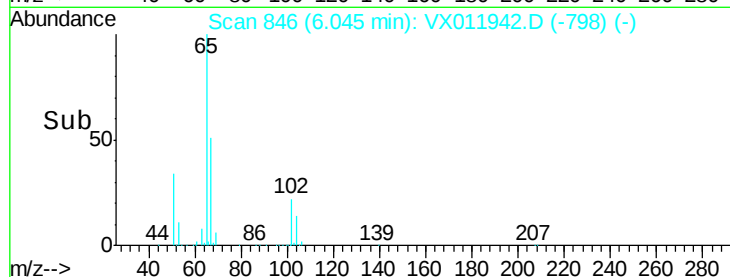
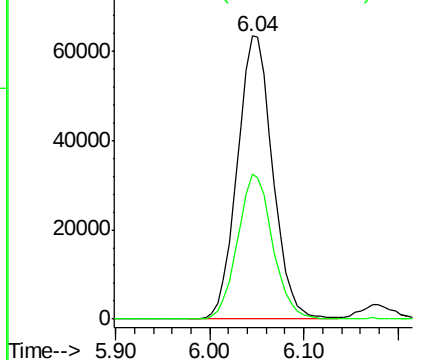
sam

9/3/2019 12:52:13 PM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

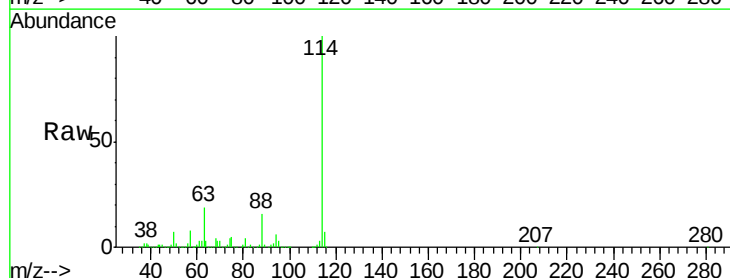
Tgt Ion: 114 Resp: 502074

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.8

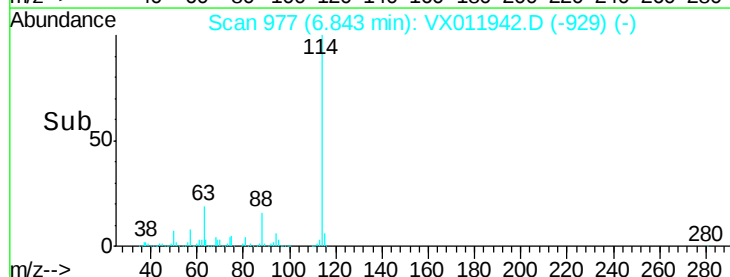
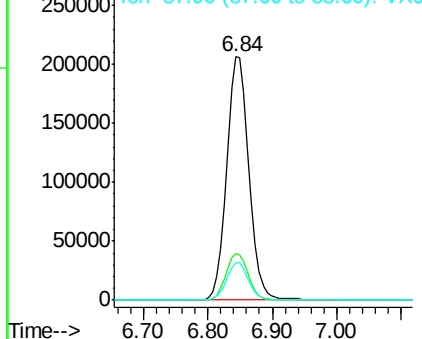
88 15.5 0.0 31.2

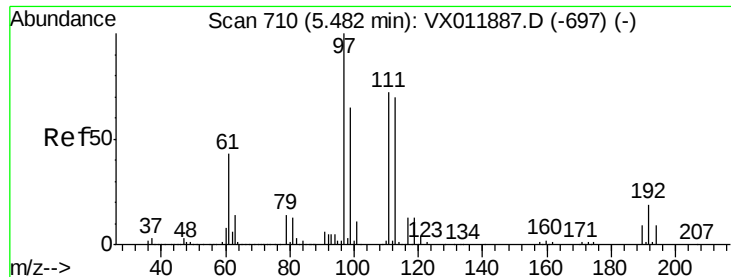


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





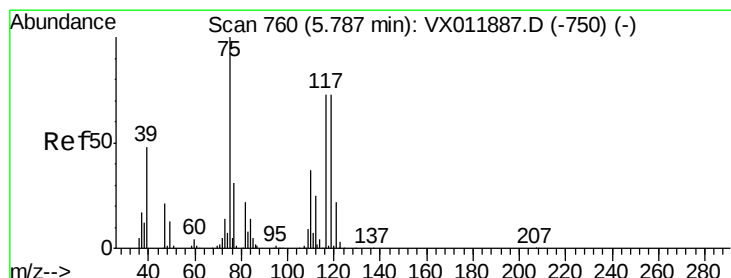
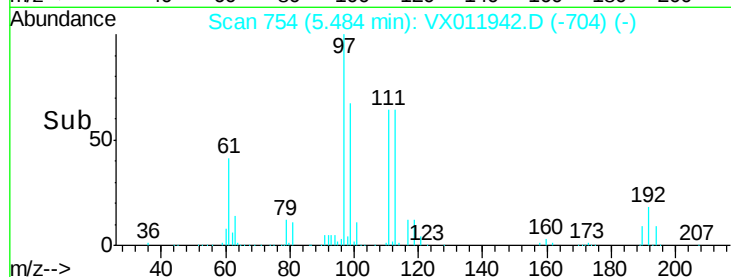
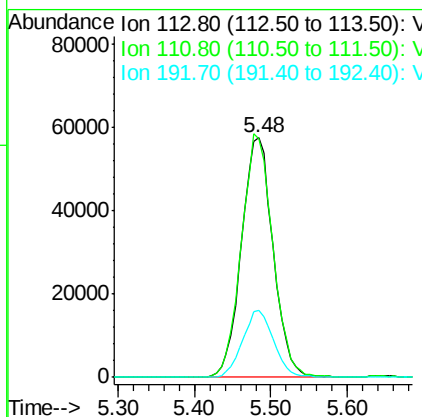
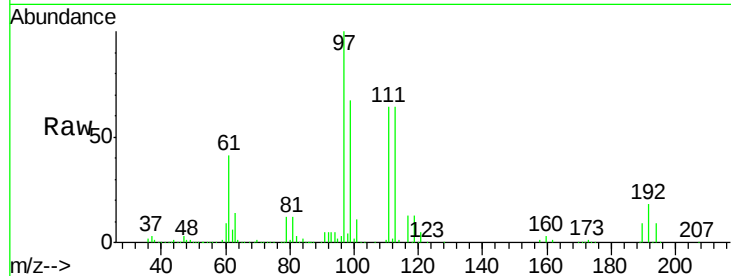
#35
 Dibromofluoromethane
 Concen: 51.533 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	165910		
111	100.7	82.1	123.1	
192	27.6	21.5	32.3	

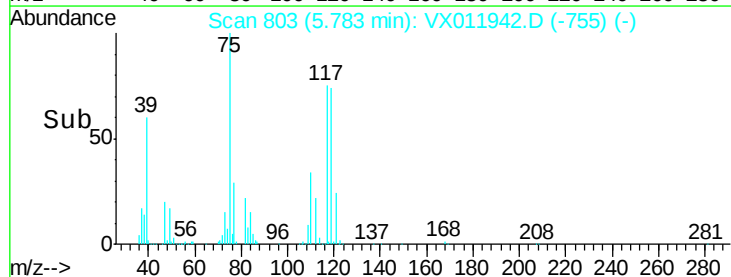
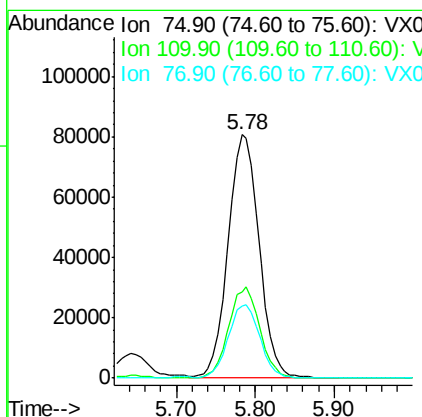
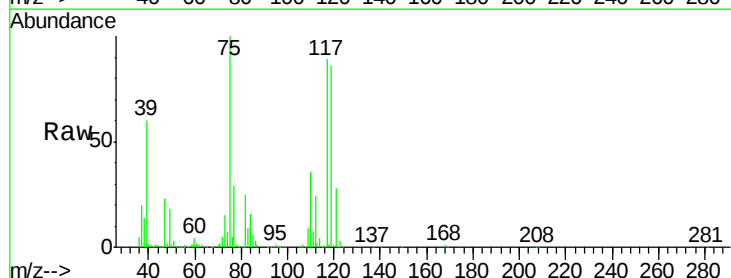
Manual Integrations
 APPROVED

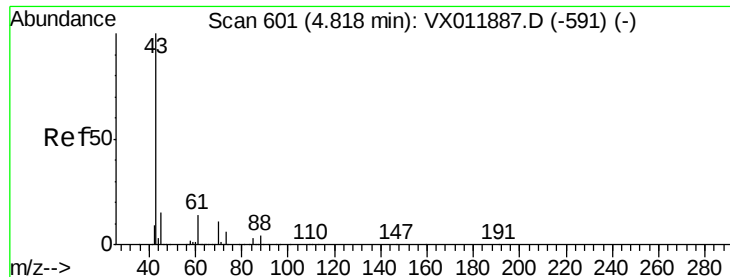
sam
 9/3/2019 12:52:13 PM



#36
 1,1-Dichloropropene
 Concen: 55.404 ug/l
 RT: 5.78 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	220376		
110	37.7	19.1	57.3	
77	30.4	24.4	36.6	





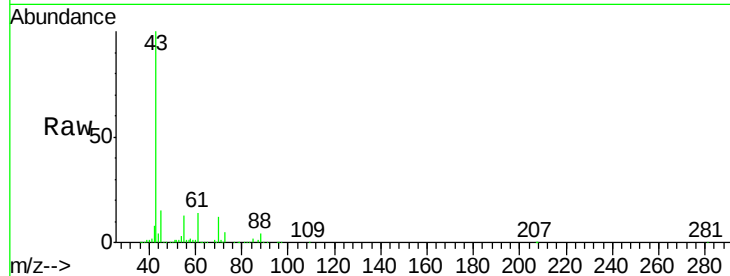
#37
Ethyl Acetate
Concen: 45.428 ug/l
RT: 4.81 min Scan# 644
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	11.8	9.2	13.8

Manual Integrations
APPROVED

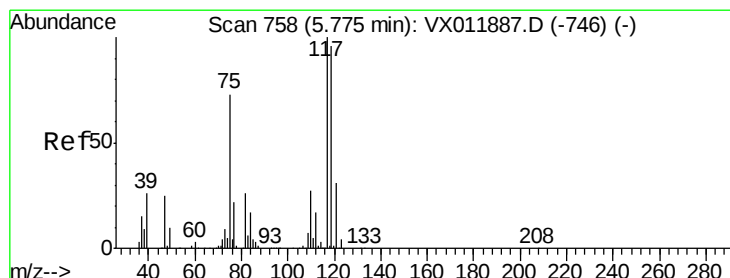
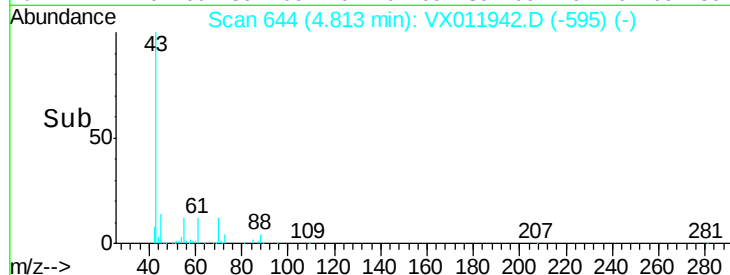
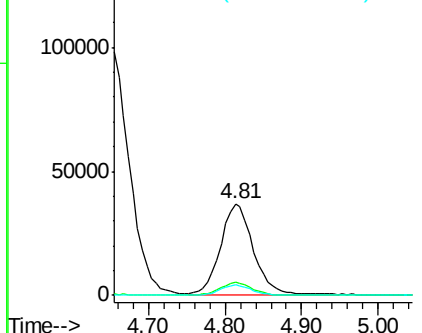
sam
9/3/2019 12:52:13 PM



Abundance Ion 43.00 (42.70 to 43.70): VX011887.D (-591) (-)

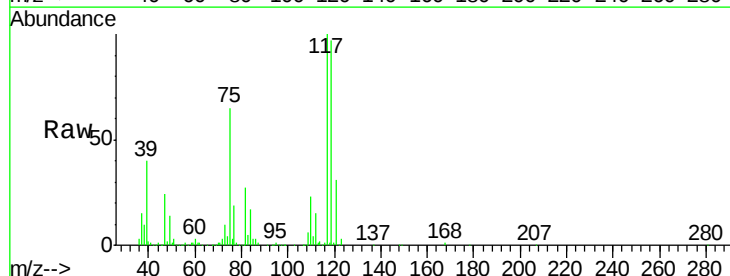
Ion 60.90 (60.60 to 61.60): VX011887.D (-591) (-)

Ion 70.00 (69.70 to 70.70): VX011887.D (-591) (-)



#38
Carbon Tetrachloride
Concen: 57.575 ug/l
RT: 5.77 min Scan# 801
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

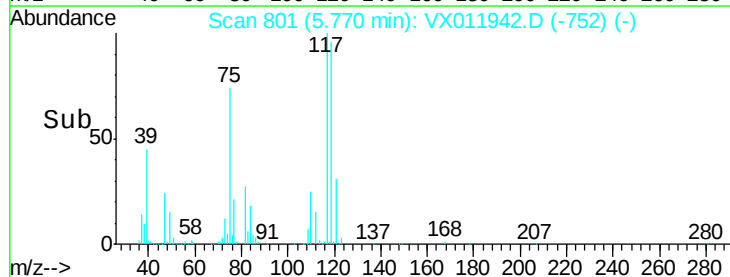
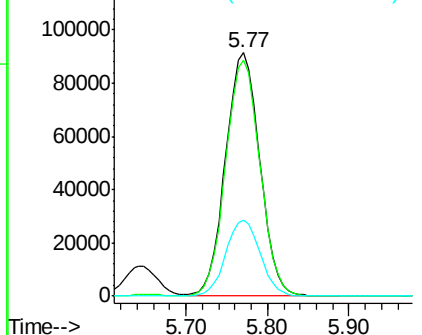
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.6	114.8
121	31.3	24.7	37.1

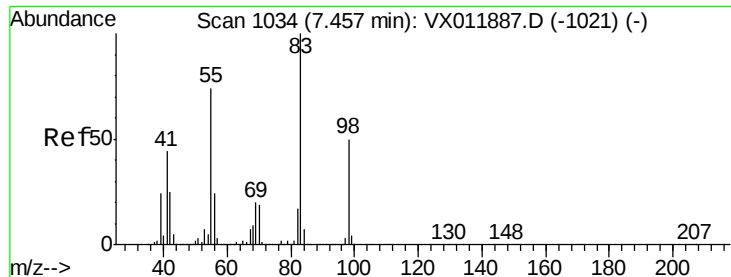


Abundance Ion 116.80 (116.50 to 117.50): VX011887.D (-746) (-)

Ion 118.80 (118.50 to 119.50): VX011887.D (-746) (-)

Ion 120.80 (120.50 to 121.50): VX011887.D (-746) (-)





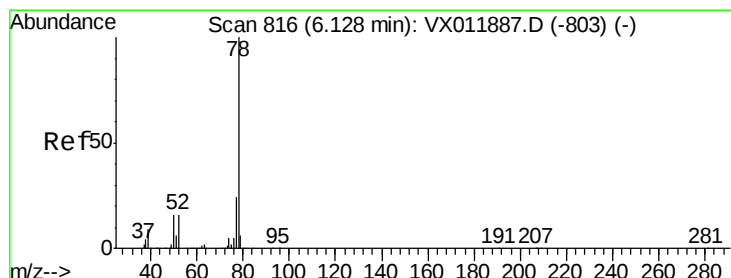
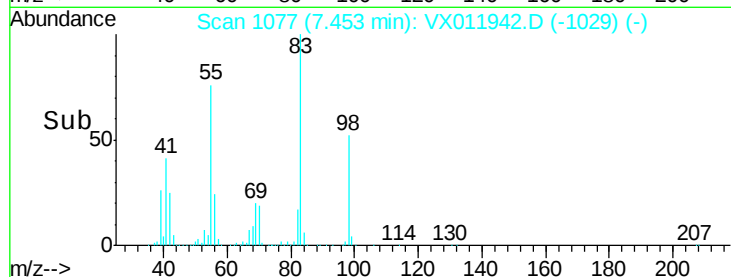
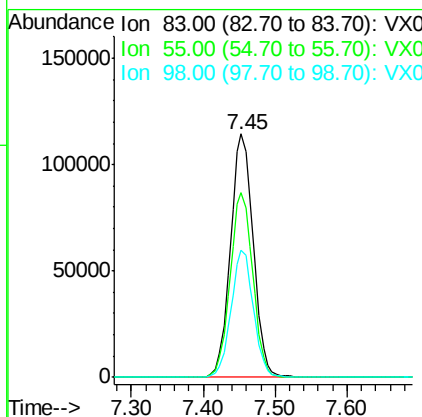
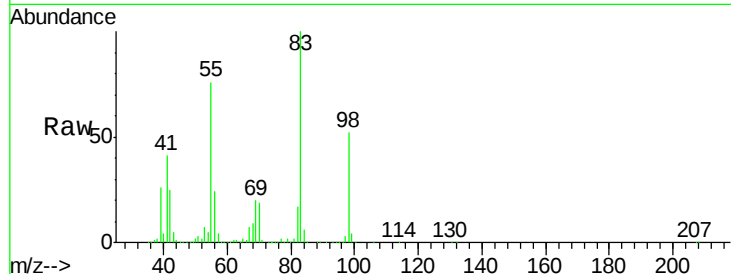
#39
Methvlcvclohexane
Concen: 53.265 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	252359		
55	75.6		59.4	89.0
98	51.9		40.3	60.5

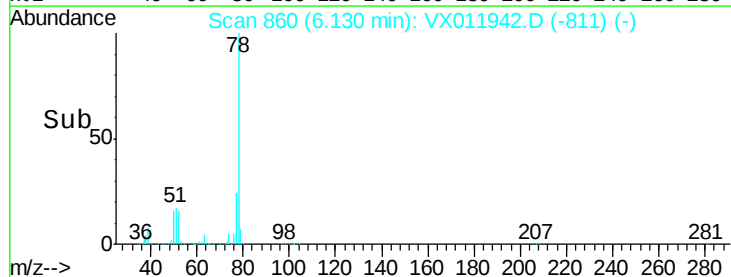
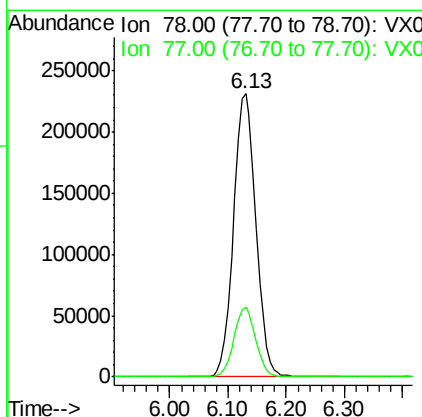
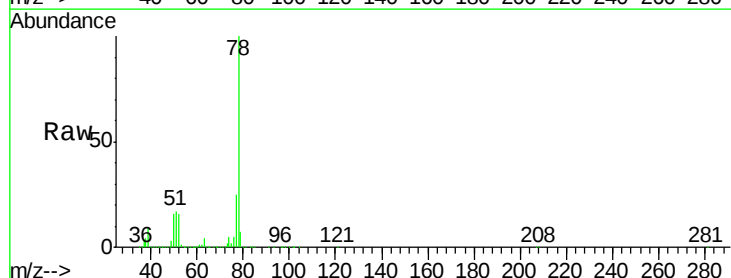
Manual Integrations
APPROVED

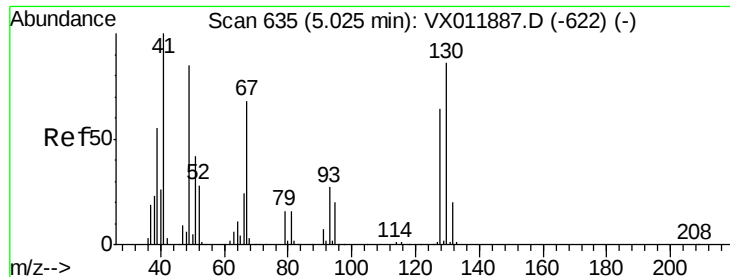
sam
9/3/2019 12:52:13 PM



#40
Benzene
Concen: 51.968 ug/l
RT: 6.13 min Scan# 860
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	617025		
77	24.6		19.0	28.6





#41

Methacrylonitrile

Concen: 47.279 ug/l

RT: 5.02 min Scan# 678

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

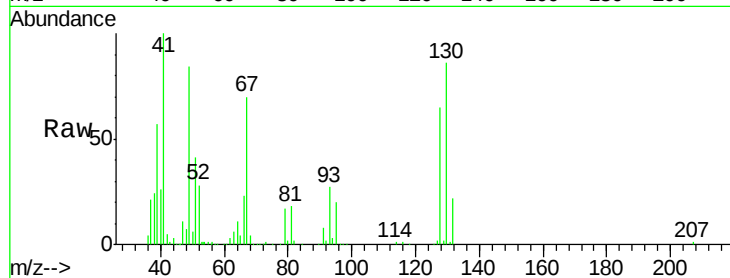
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.4	45.0	67.6	
67	71.3	55.0	82.4	
52	28.8	24.1	36.1	

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM

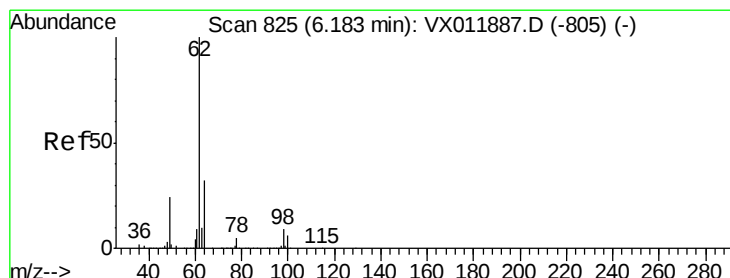
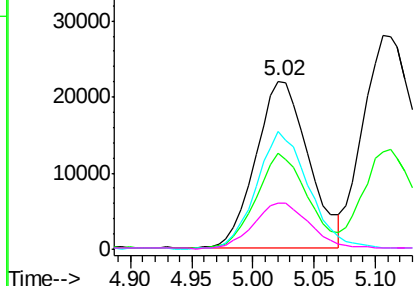
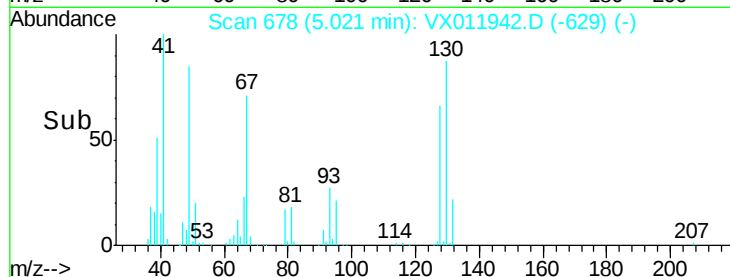


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 50.317 ug/l

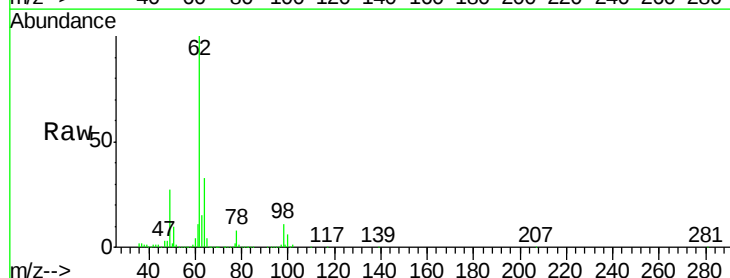
RT: 6.18 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX011942.D

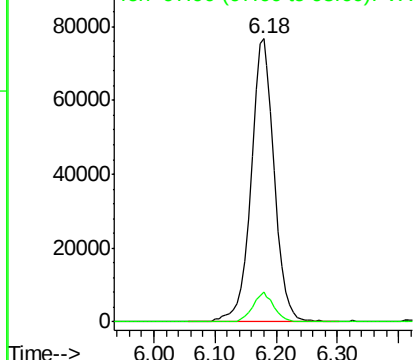
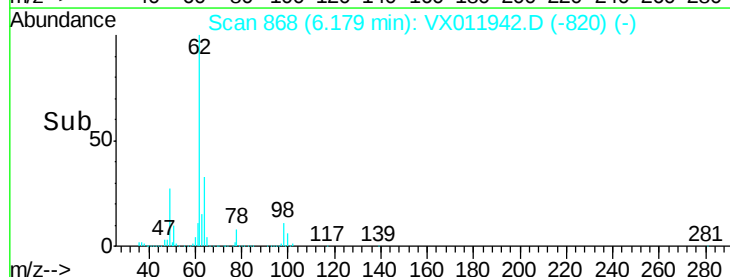
Acq: 31 Aug 2019 10:58

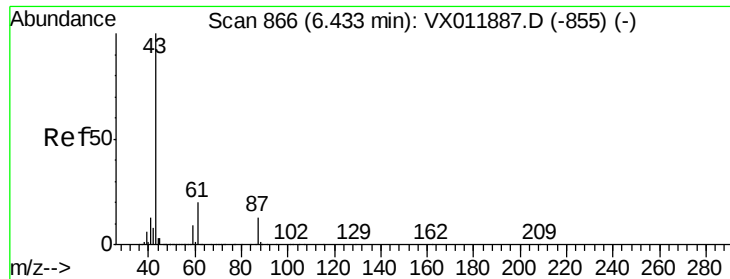
Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	0.0	19.2	



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

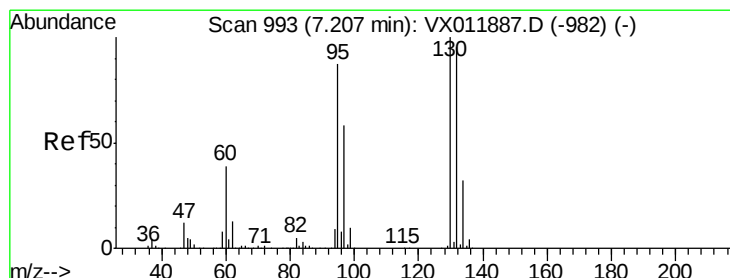
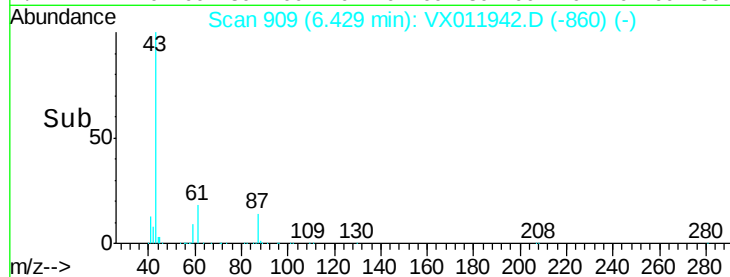
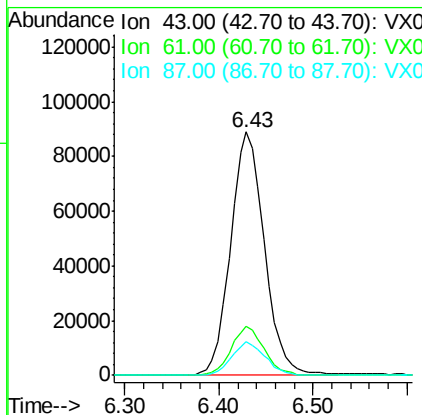
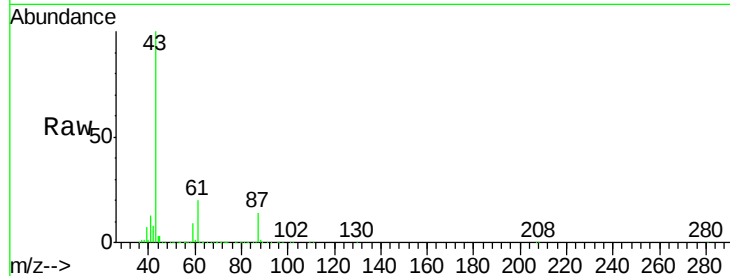
Isopropyl Acetate
 Concen: 46.186 ug/l
 RT: 6.43 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.9	16.1	24.1
87	13.9	10.6	16.0

Manual Integrations
 APPROVED

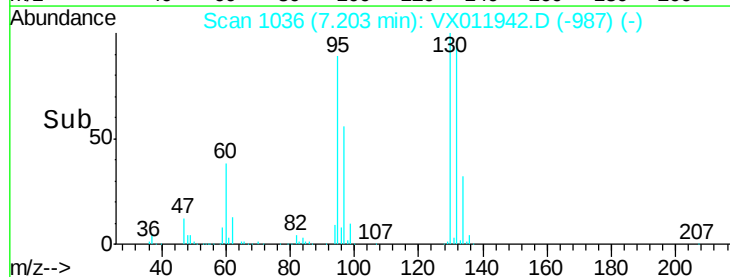
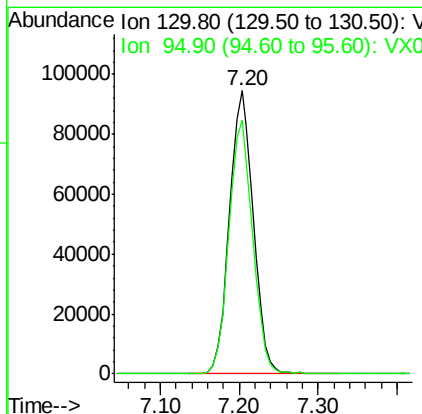
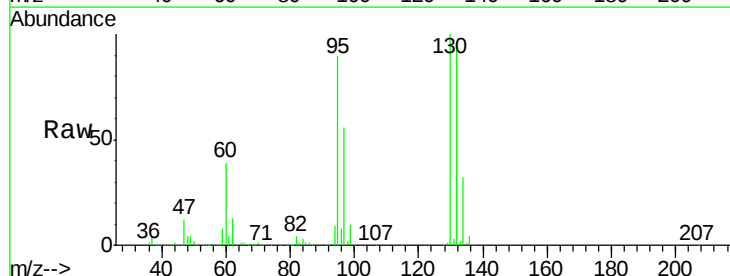
Sam
 9/3/2019 12:52:13 PM

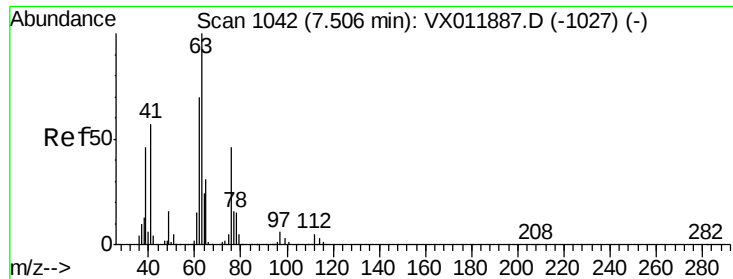


#44

Trichloroethene
 Concen: 54.269 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.5	0.0	174.6





#45

1,2-Dichloropropane

Concen: 50.580 ug/l

RT: 7.51 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 157086

Ion Ratio Lower Upper

63 100

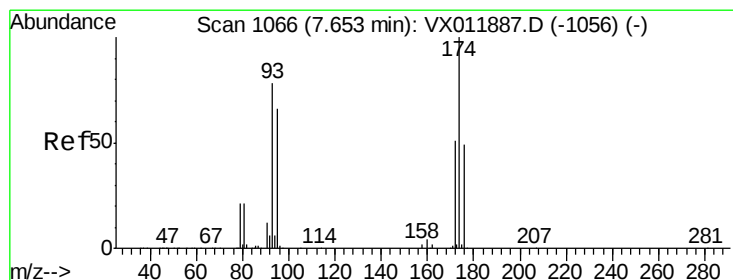
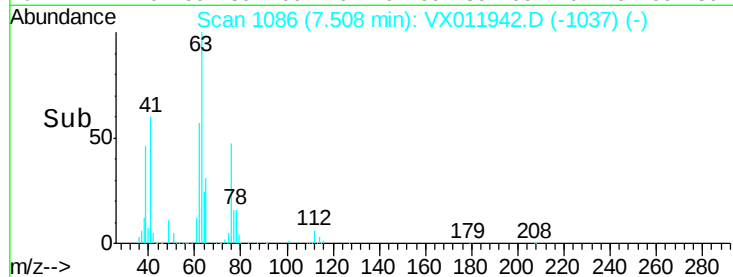
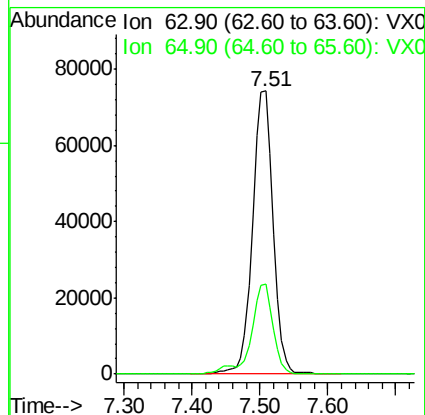
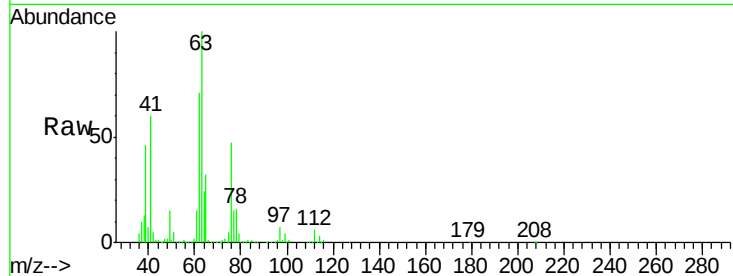
65 31.9 25.1 37.7

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



#46

Dibromomethane

Concen: 48.619 ug/l

RT: 7.65 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

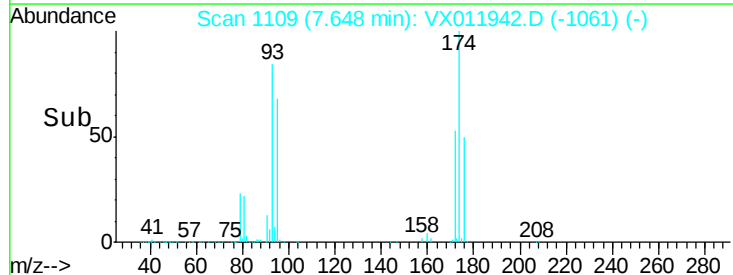
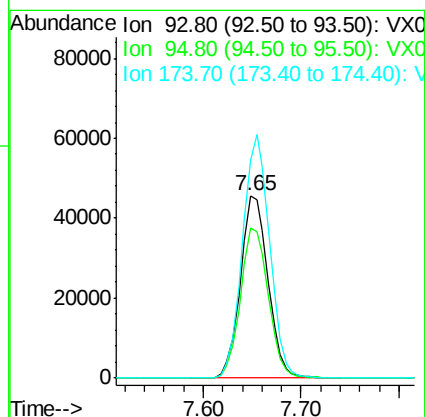
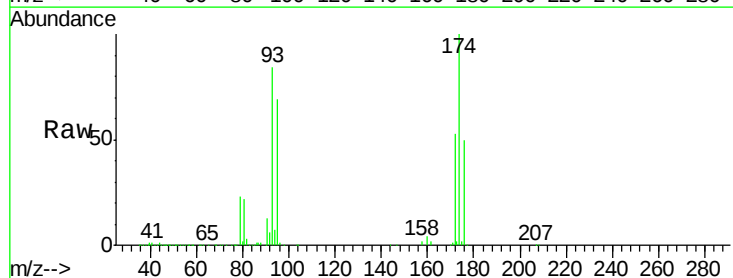
Tgt Ion: 93 Resp: 89612

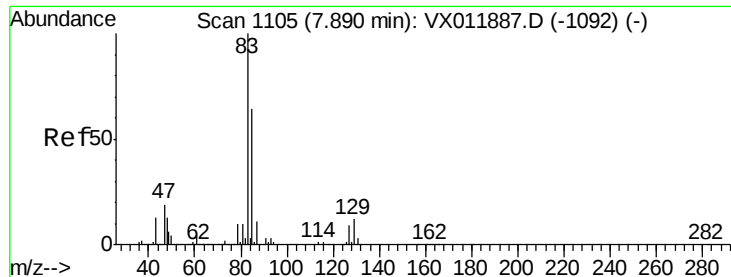
Ion Ratio Lower Upper

93 100

95 83.4 65.7 98.5

174 131.4 104.2 156.4





#47

Bromodichloromethane

Concen: 51.523 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

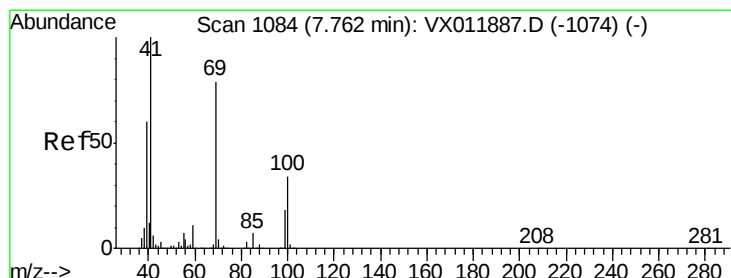
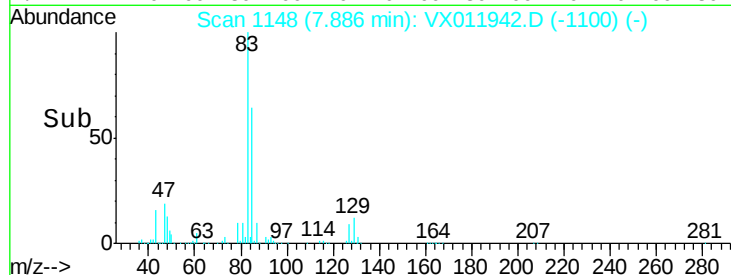
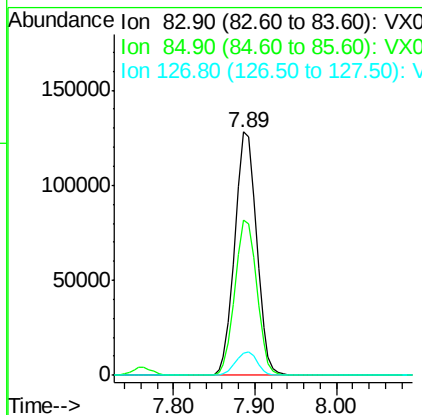
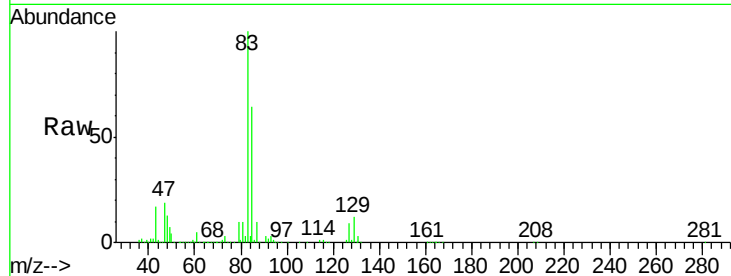
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	235487
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	9.2	7.4	11.2

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#48

Methyl methacrylate

Concen: 46.387 ug/l

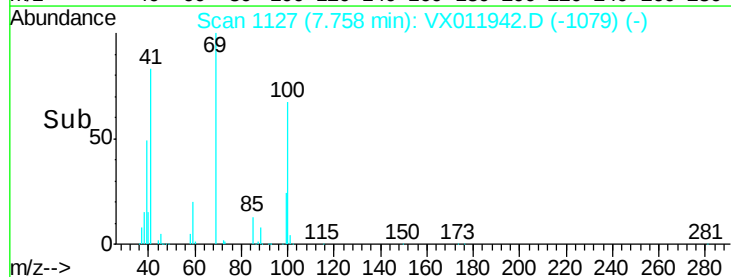
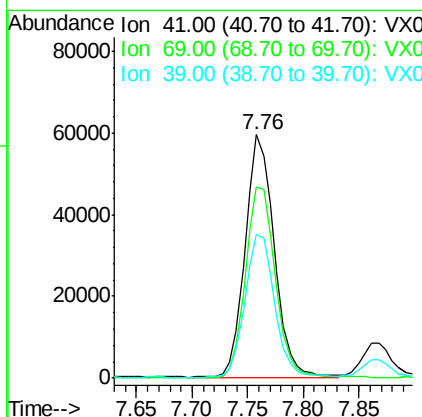
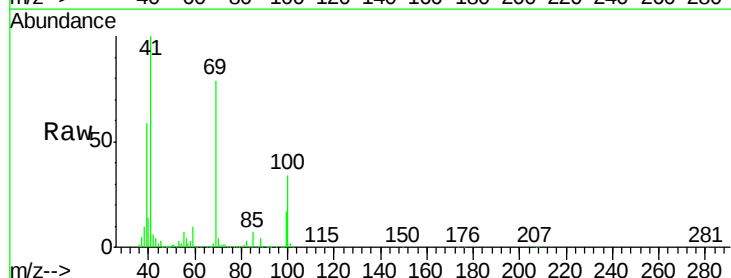
RT: 7.76 min Scan# 1127

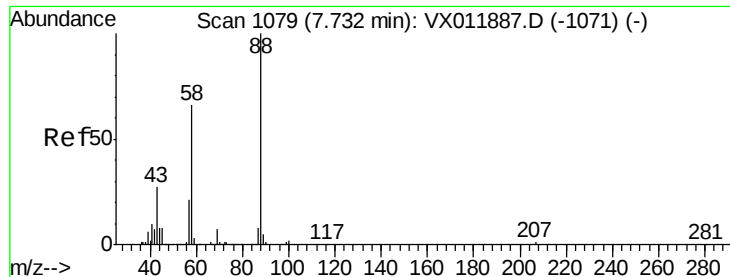
Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	41	Resp:	107741
Ion	Ratio	Lower	Upper
41	100		
69	81.5	64.4	96.6
39	60.0	47.2	70.8





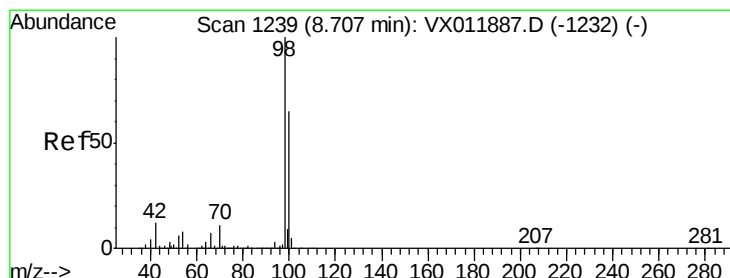
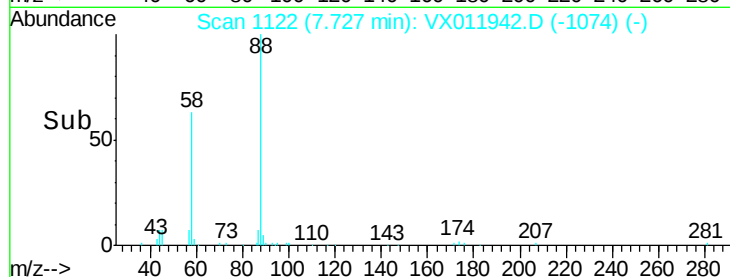
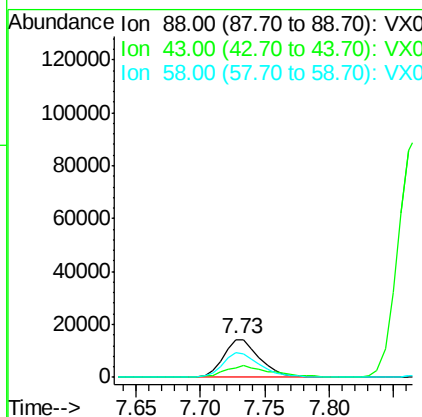
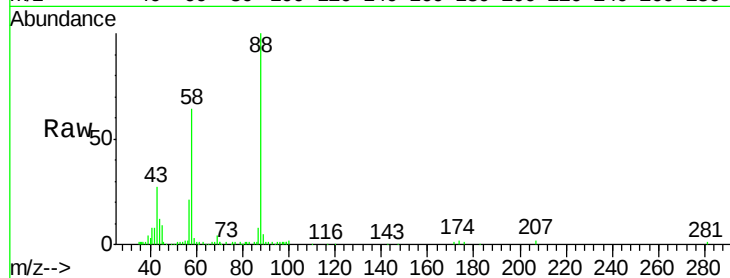
#49
1,4-Dioxane
Concen: 878.775 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.5	27.3	40.9
58	68.0	53.9	80.9

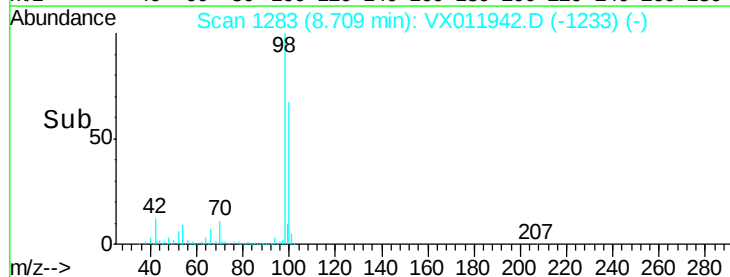
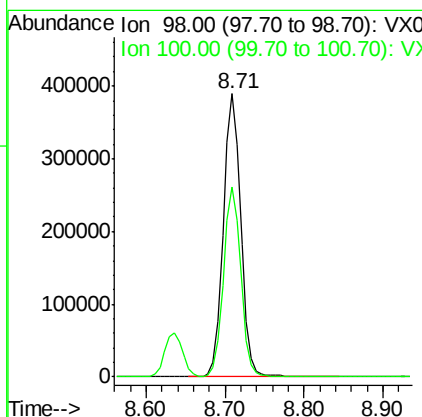
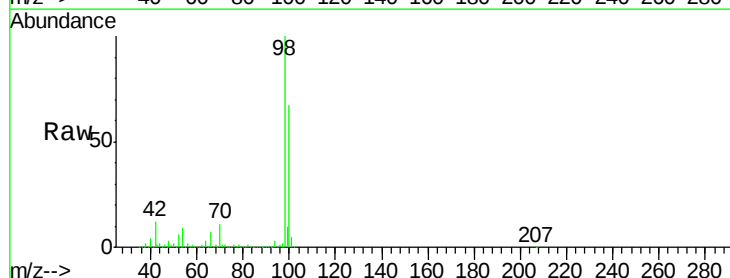
Manual Integrations
APPROVED

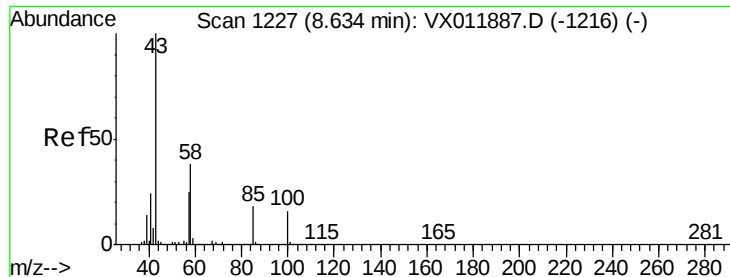
sam
9/3/2019 12:52:13 PM



#50
Toluene-d8
Concen: 52.024 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.6





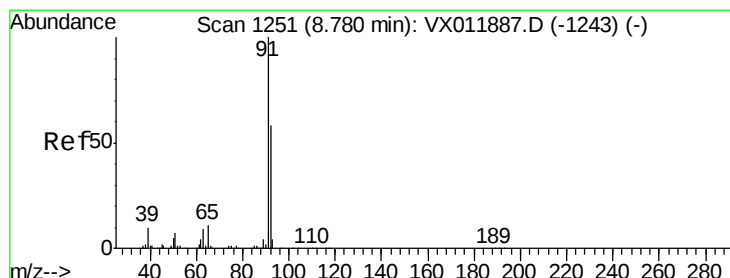
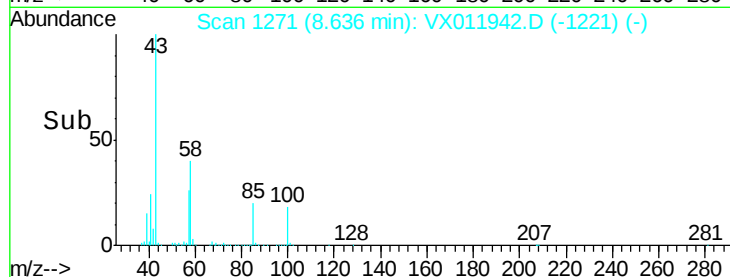
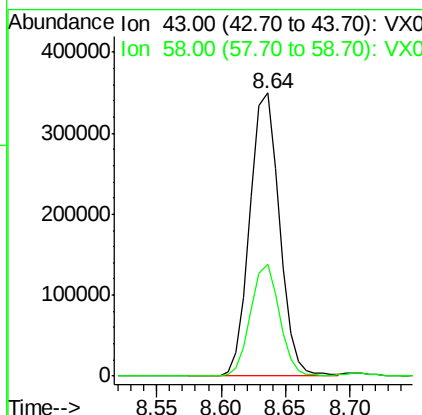
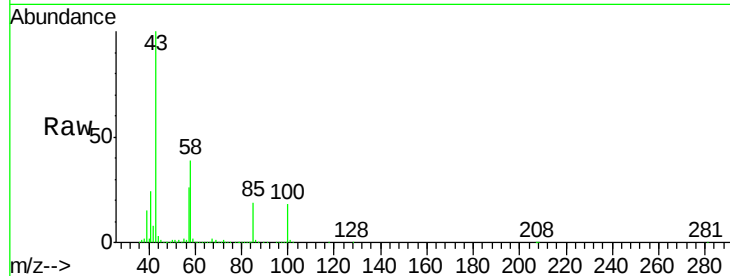
#51
 4-Methyl-2-Pentanone
 Concen: 228.479 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.9	46.3

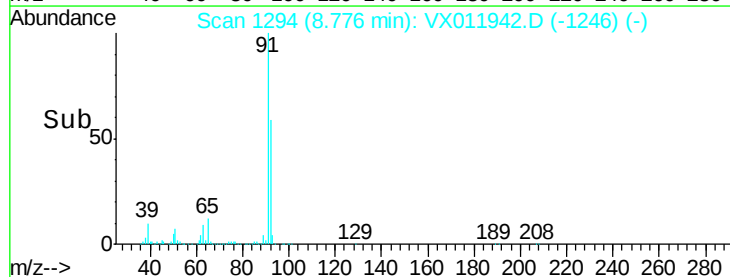
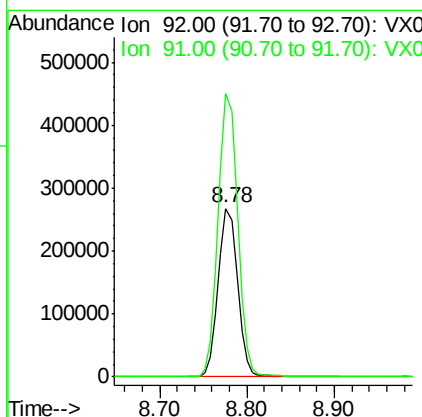
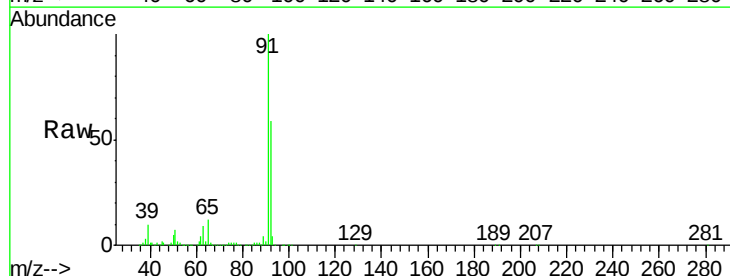
Manual Integrations
 APPROVED

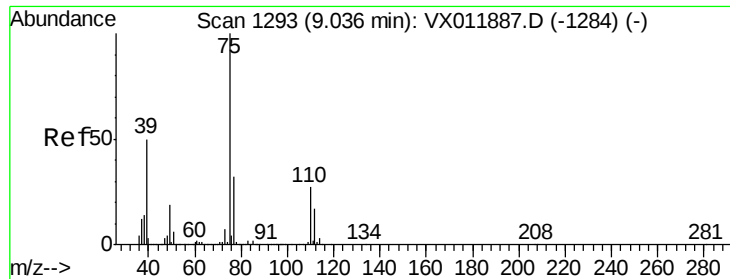
sam
 9/3/2019 12:52:13 PM



#52
 Toluene
 Concen: 52.839 ug/l
 RT: 8.78 min Scan# 1294
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.7	136.8	205.2





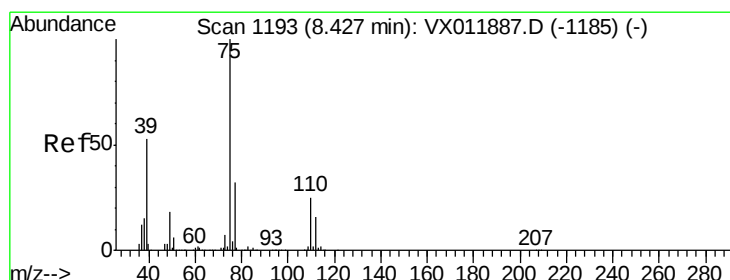
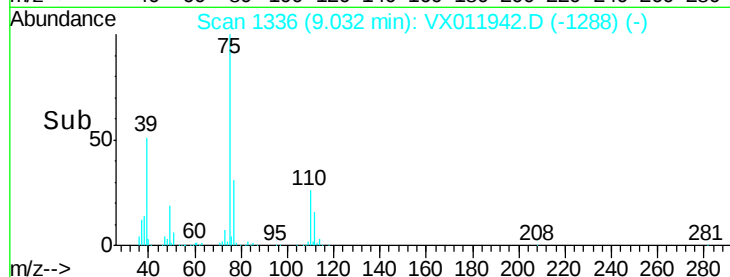
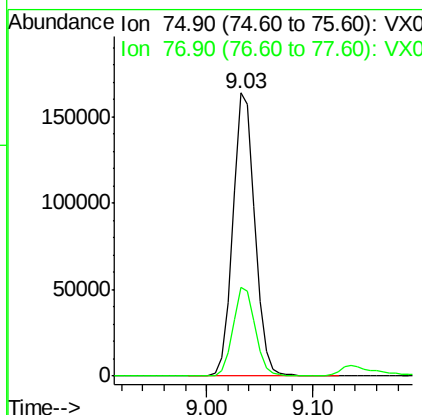
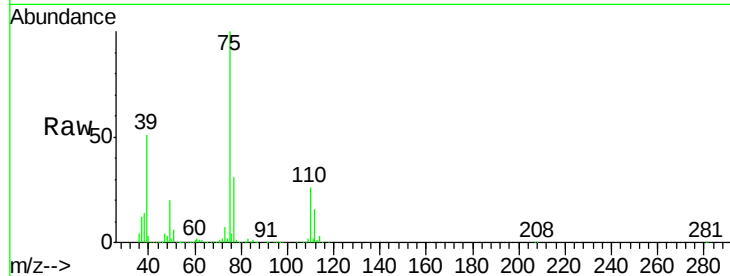
#53
t-1,3-Dichloropropene
Concen: 50.816 ug/l
RT: 9.03 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.6	38.4

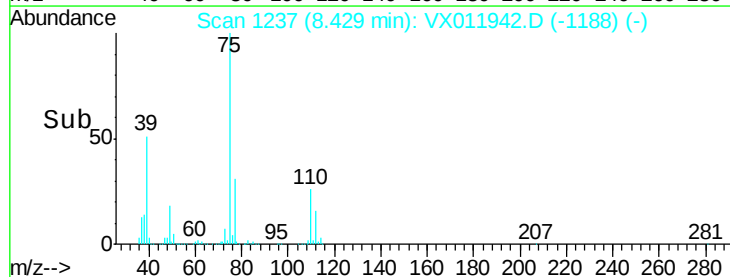
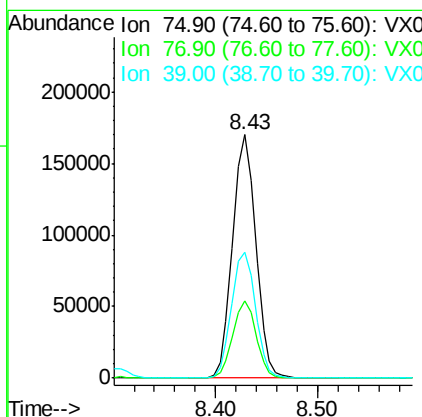
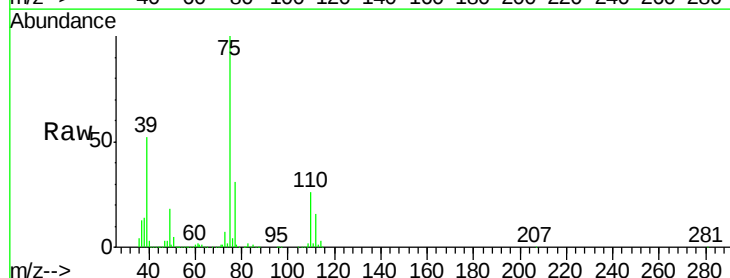
Manual Integrations
APPROVED

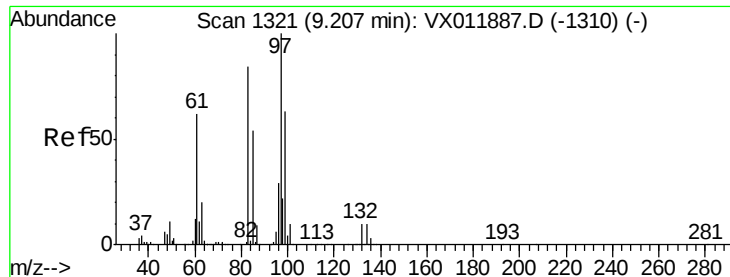
sam
9/3/2019 12:52:13 PM



#54
cis-1,3-Dichloropropene
Concen: 51.133 ug/l
RT: 8.43 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.5	38.3
39	51.4	42.6	64.0





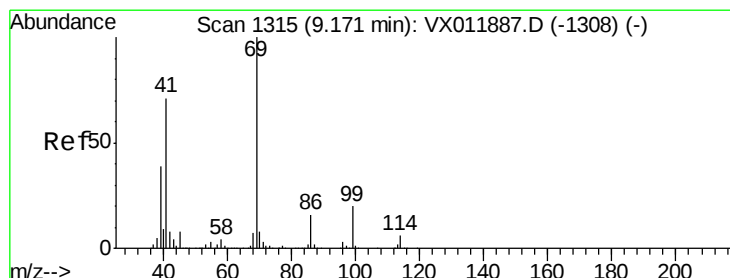
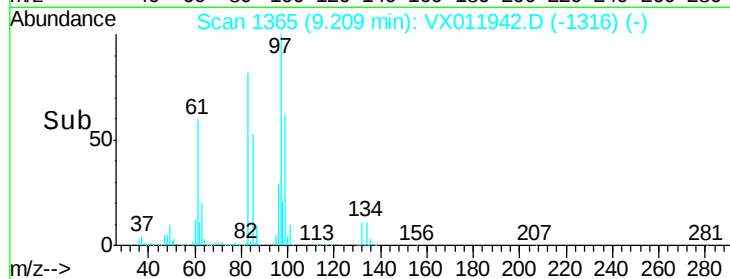
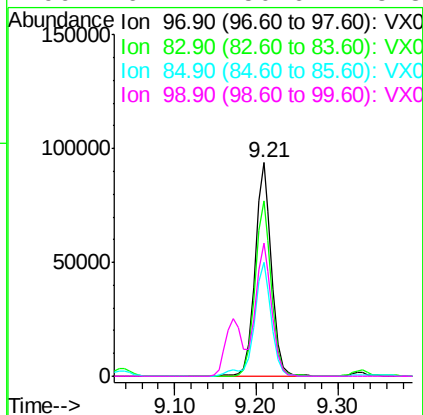
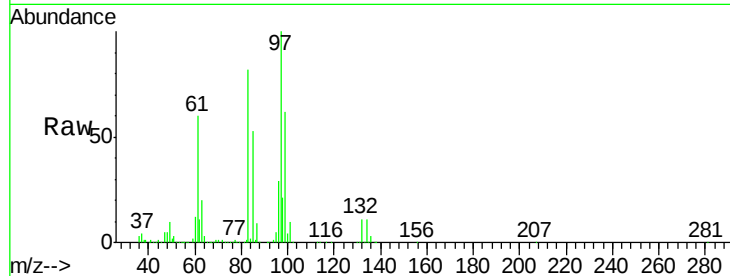
#55
 1,1,2-Trichloroethane
 Concen: 49.229 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	132836
Ion Ratio	Lower	Upper	
97	100		
83	82.0	66.8	100.2
85	53.2	43.5	65.3
99	62.2	50.6	75.8

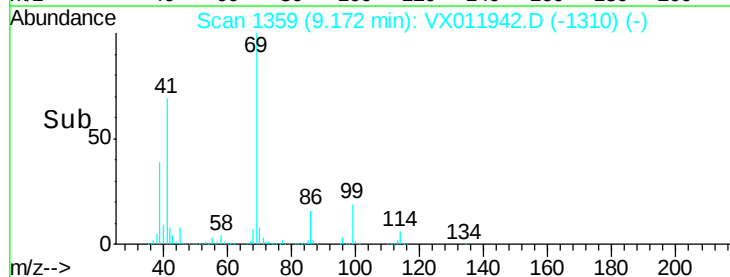
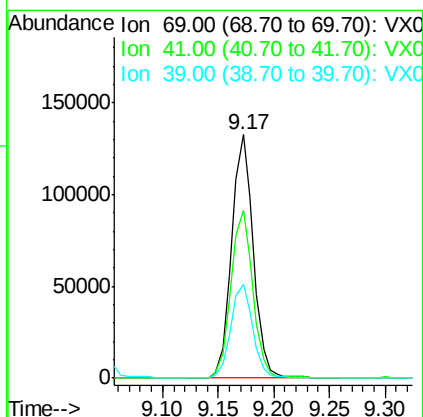
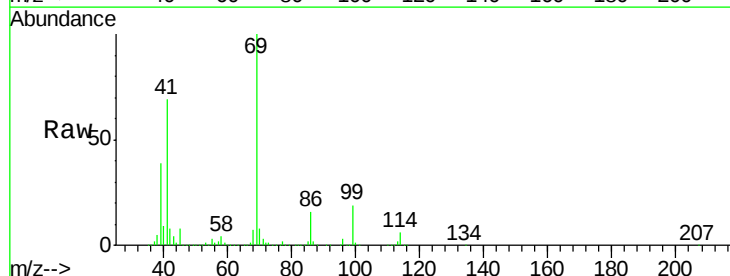
Manual Integrations
 APPROVED

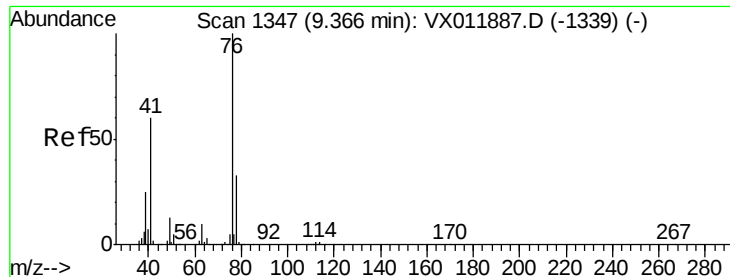
sam
 9/3/2019 12:52:13 PM



#56
 Ethyl methacrylate
 Concen: 47.489 ug/l
 RT: 9.17 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion:	69	Resp:	177846
Ion Ratio	Lower	Upper	
69	100		
41	69.4	55.8	83.8
39	39.3	31.1	46.7





#57

1,3-Dichloropropane

Concen: 49.066 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 219749

Ion Ratio Lower Upper

76 100

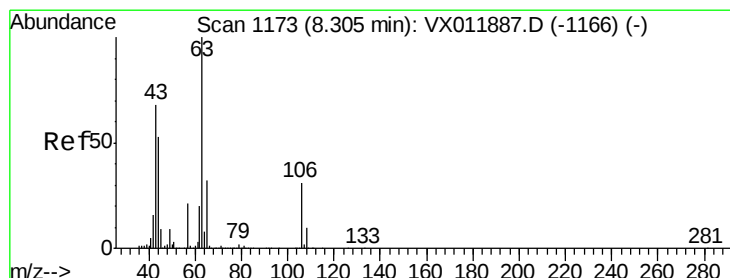
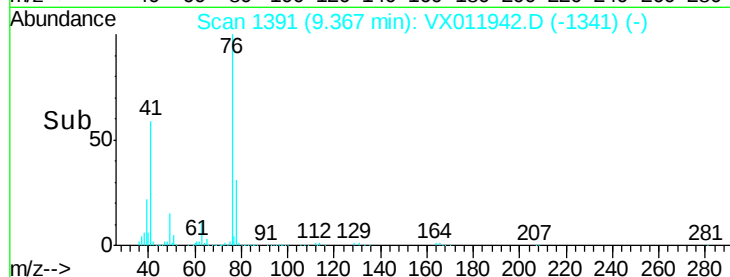
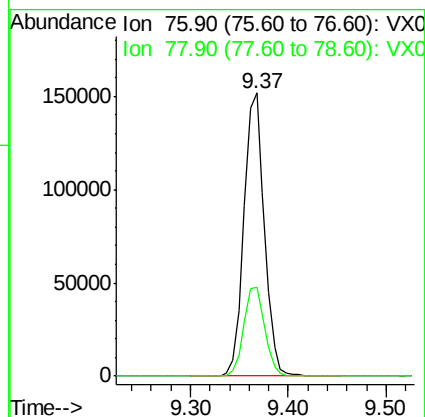
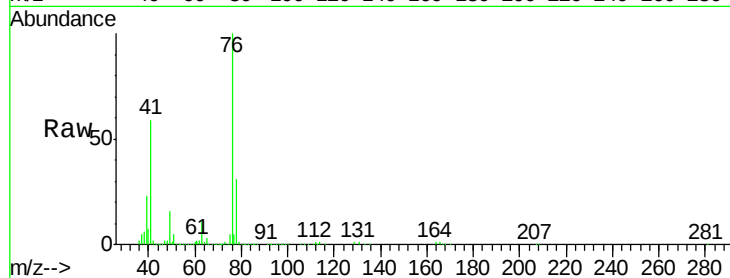
78 32.5 26.4 39.6

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



#58

2-Chloroethyl Vinyl ether

Concen: 251.585 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VX011942.D

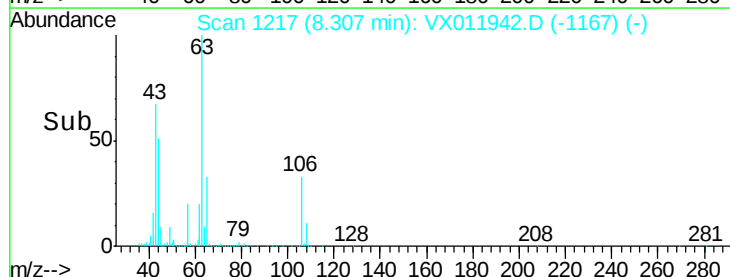
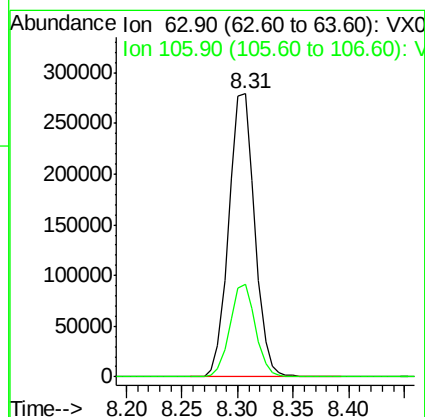
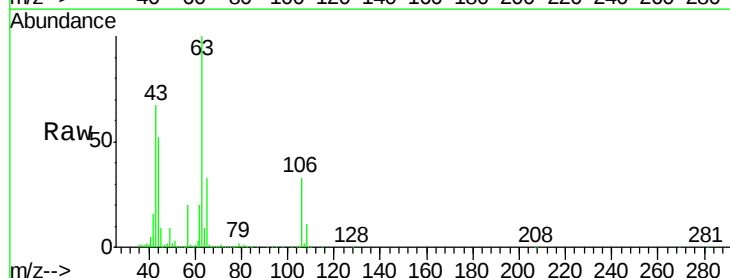
Acq: 31 Aug 2019 10:58

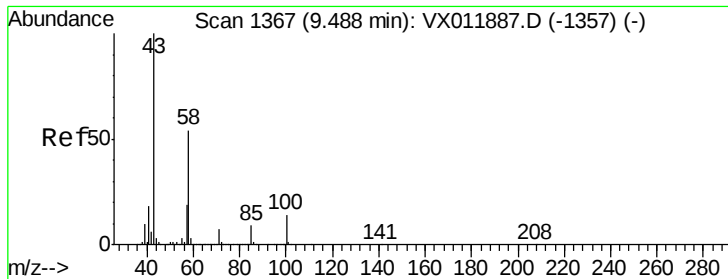
Tgt Ion: 63 Resp: 448753

Ion Ratio Lower Upper

63 100

106 32.2 24.8 37.2





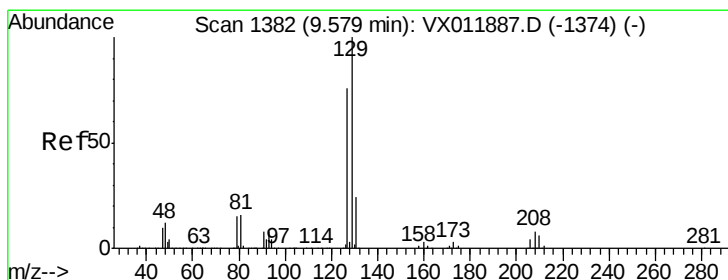
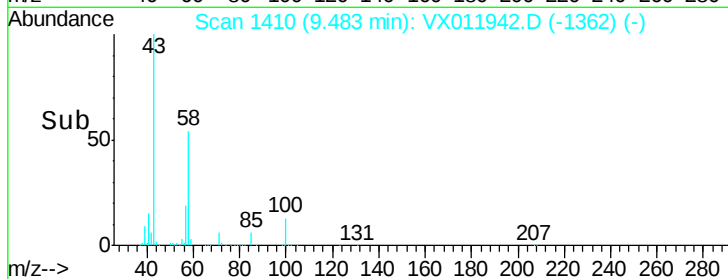
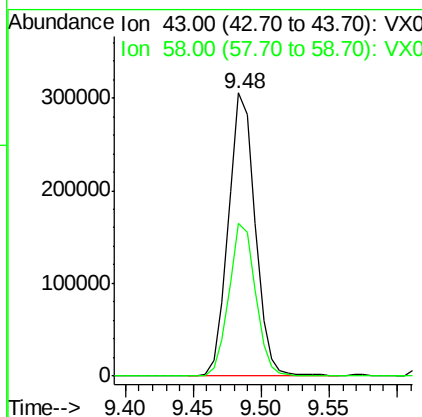
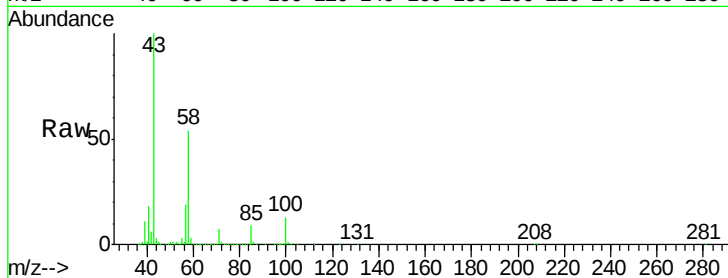
#59
2-Hexanone
Concen: 242.968 ug/l
RT: 9.48 min Scan# 1410
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 418540
Ion Ratio Lower Upper
43 100
58 54.2 26.8 80.4

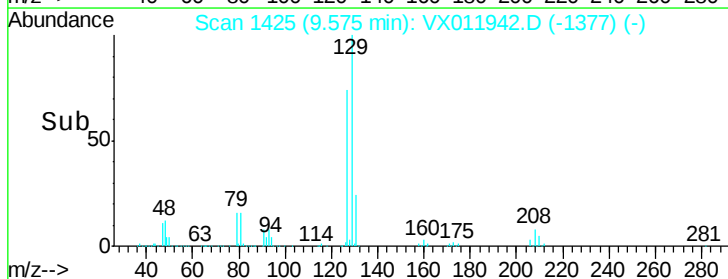
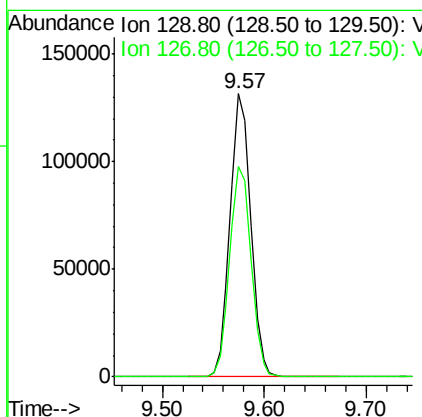
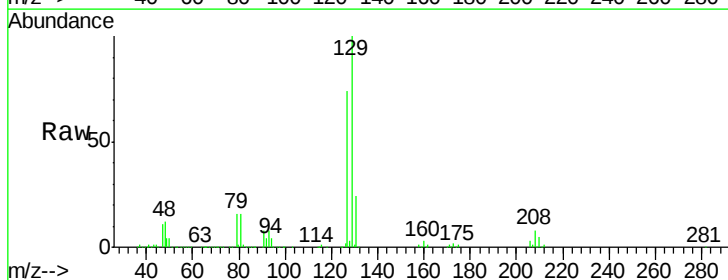
Manual Integrations
APPROVED

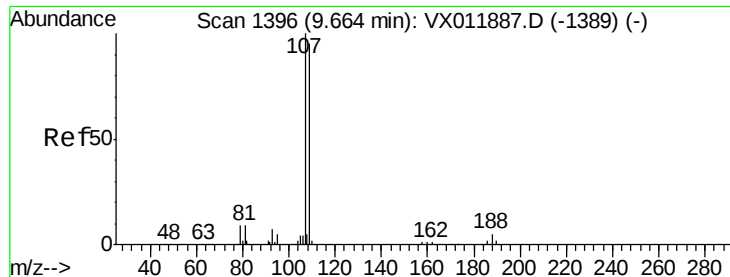
sam
9/3/2019 12:52:13 PM



#60
Dibromochloromethane
Concen: 51.024 ug/l
RT: 9.57 min Scan# 1425
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion: 129 Resp: 184916
Ion Ratio Lower Upper
129 100
127 76.7 38.6 115.7





#61

1,2-Dibromoethane

Concen: 49.043 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 131203

Ion Ratio Lower Upper

107 100

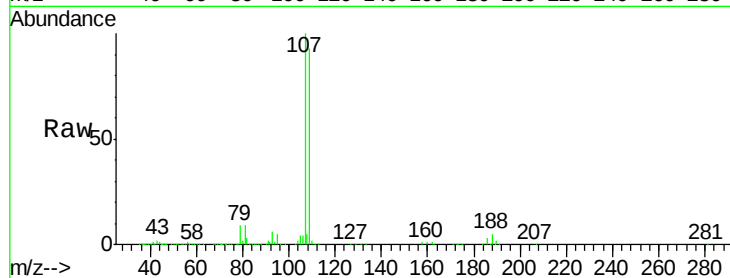
109 94.7 75.3 112.9

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

100000

80000

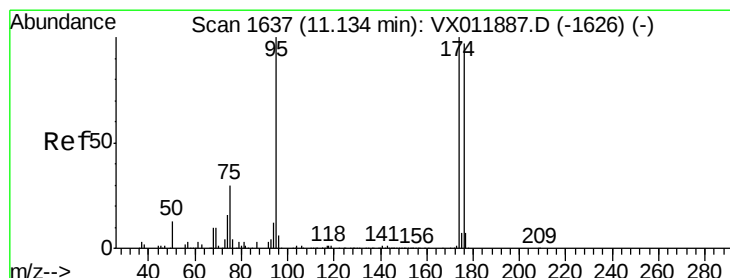
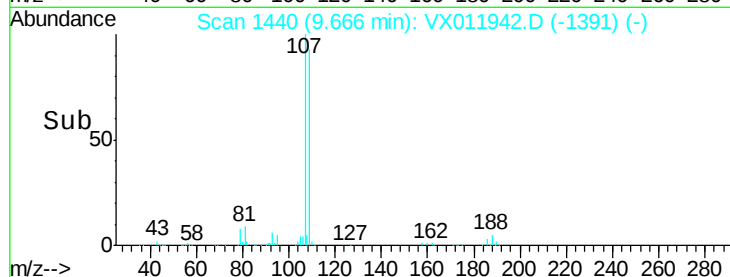
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.901 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

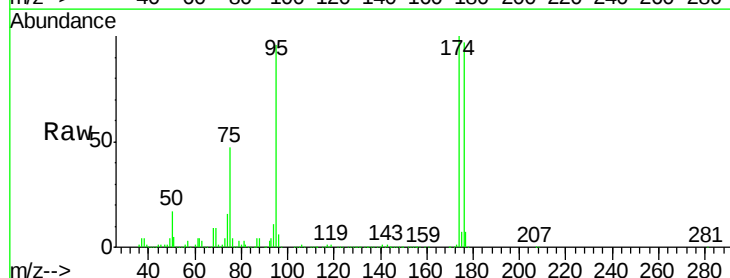
Tgt Ion: 95 Resp: 241828

Ion Ratio Lower Upper

95 100

174 99.5 0.0 196.0

176 97.9 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

250000

200000

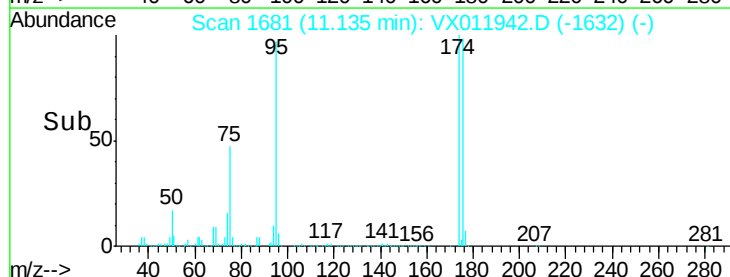
150000

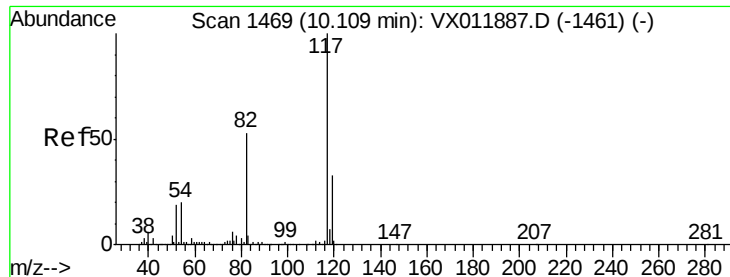
100000

50000

0

Time-->





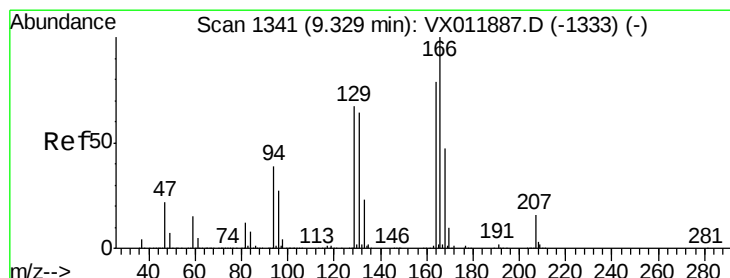
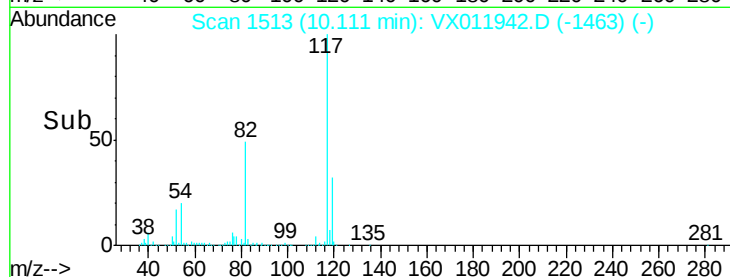
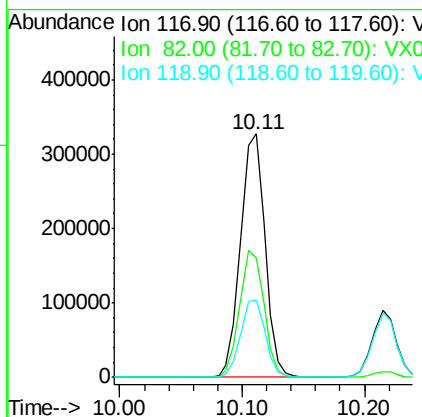
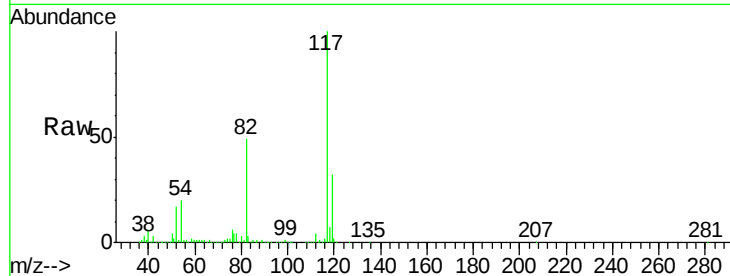
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	454915		
82	49.1	42.0	63.0	
119	31.9	26.2	39.4	

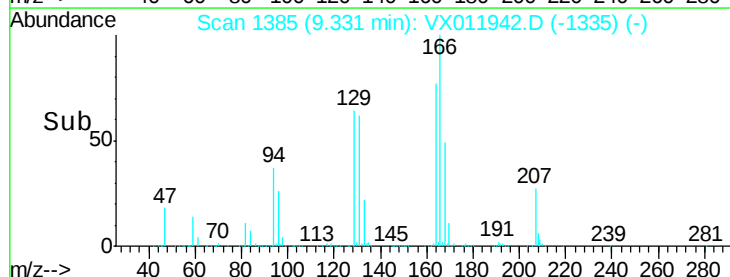
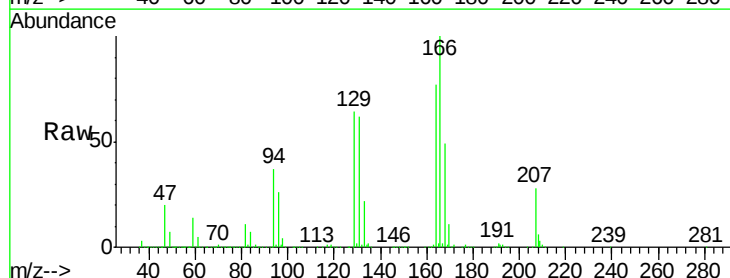
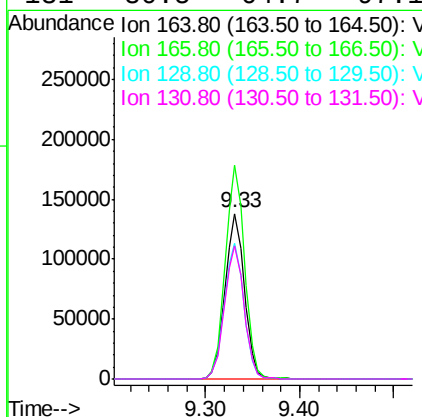
Manual Integrations
APPROVED

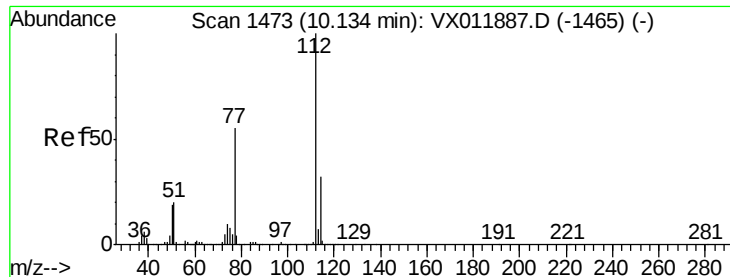
sam
9/3/2019 12:52:13 PM



#64
Tetrachloroethene
Concen: 53.782 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	196805		
166	129.1	101.4	152.0	
129	82.2	68.0	102.0	
131	80.5	64.7	97.1	





#65

Chlorobenzene

Concen: 54.108 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050

Tot Ion:112 Resp: 476994

Ion Ratio Lower Upper

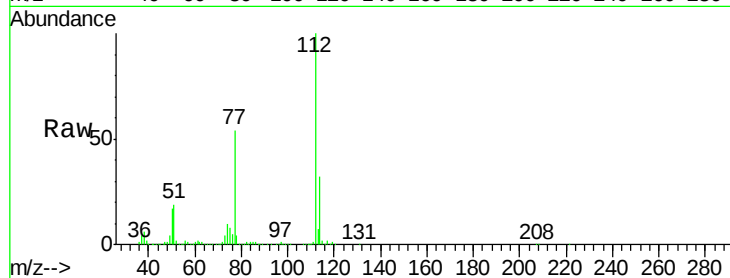
112 100

114 31.8 25.9 38.9

Manual Integrations
APPROVED

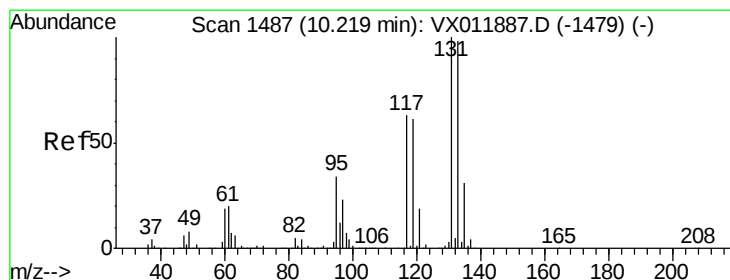
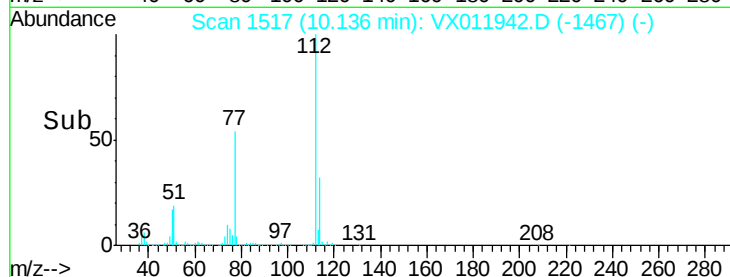
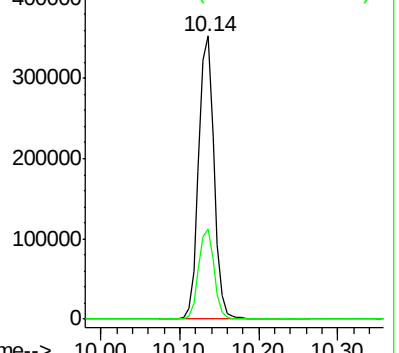
sam

9/3/2019 12:52:13 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 54.652 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

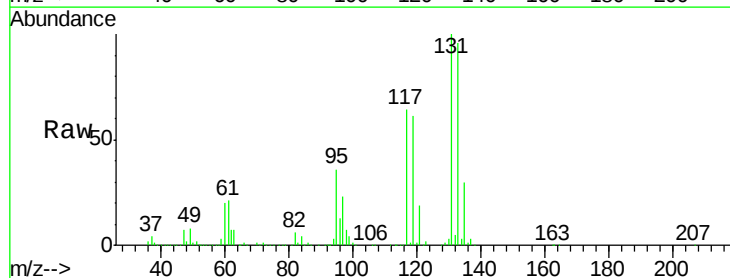
Tgt Ion:131 Resp: 194831

Ion Ratio Lower Upper

131 100

133 95.5 48.4 145.0

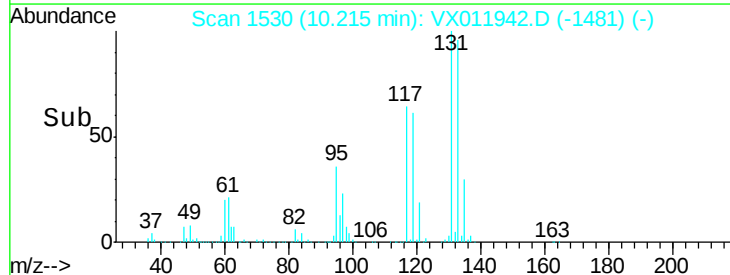
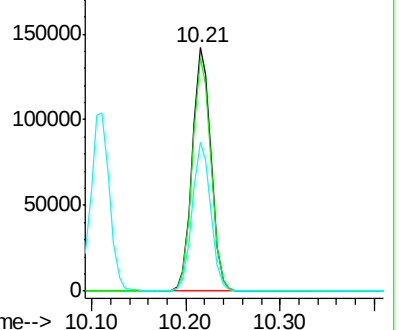
119 60.7 30.6 92.0

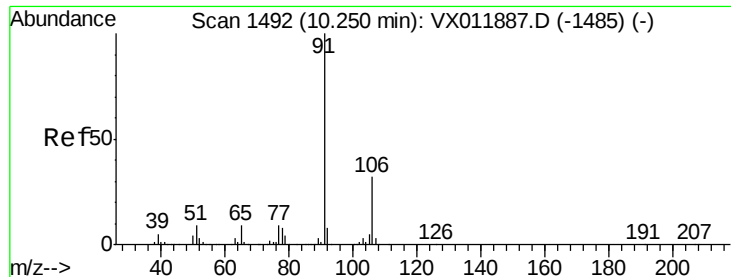


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 55.573 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 833343

Ion Ratio Lower Upper

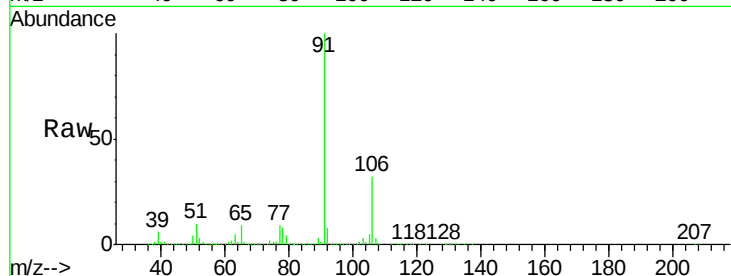
91 100

106 31.8 25.8 38.8

Manual Integrations
APPROVED

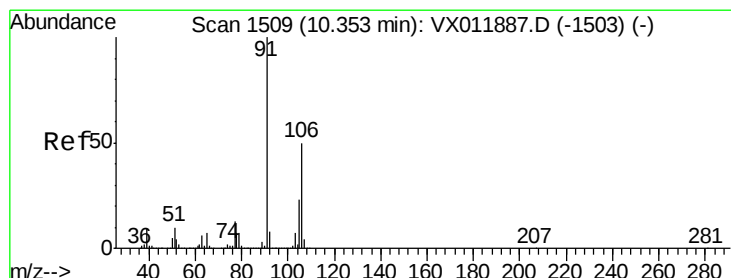
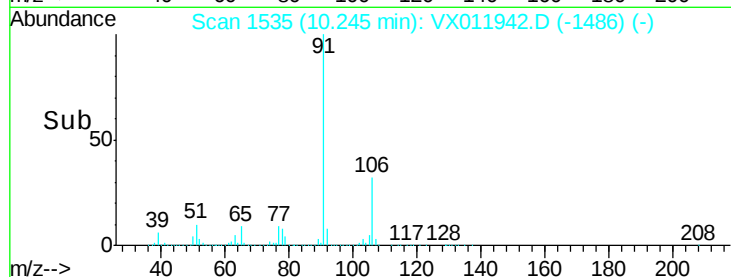
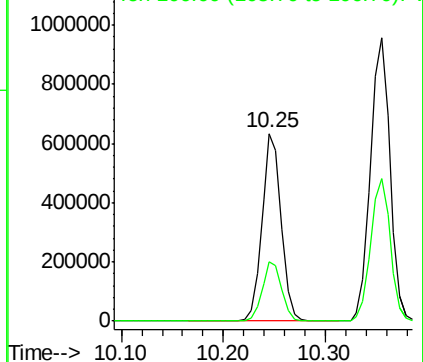
sam

9/3/2019 12:52:13 PM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 111.729 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX011942.D

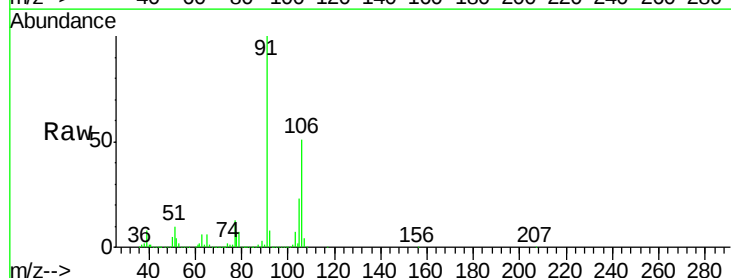
Acq: 31 Aug 2019 10:58

Tgt Ion: 106 Resp: 646937

Ion Ratio Lower Upper

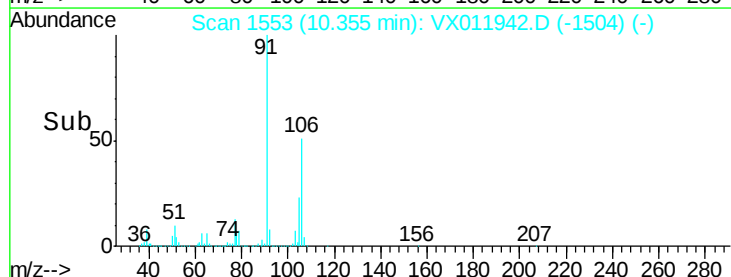
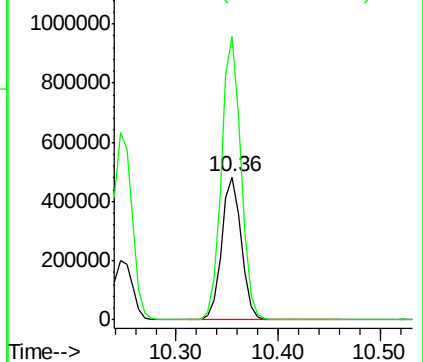
106 100

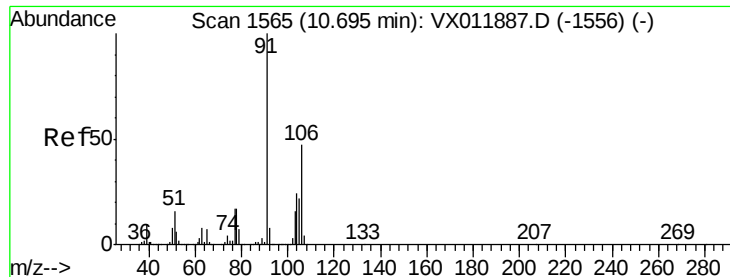
91 197.9 158.6 237.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





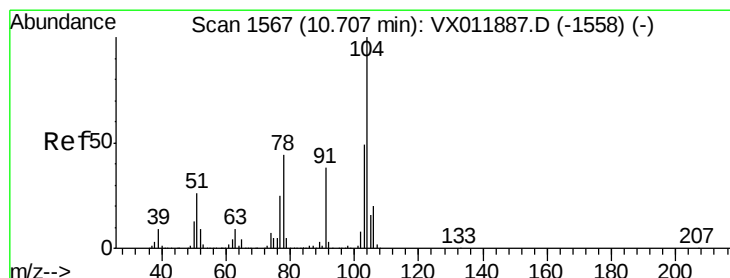
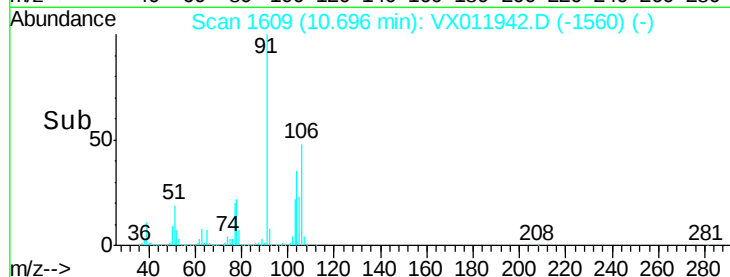
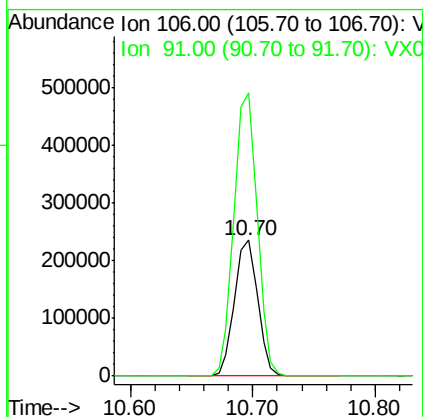
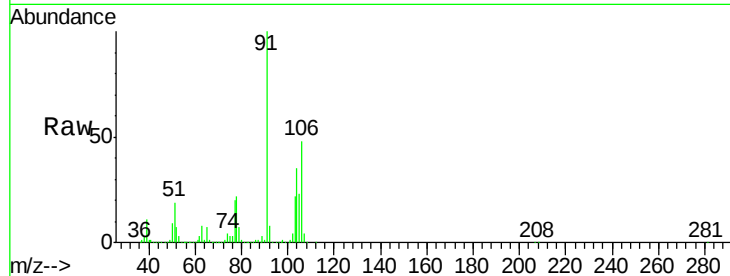
#69
o-Xylene
Concen: 54.783 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	209.4	104.8	314.6

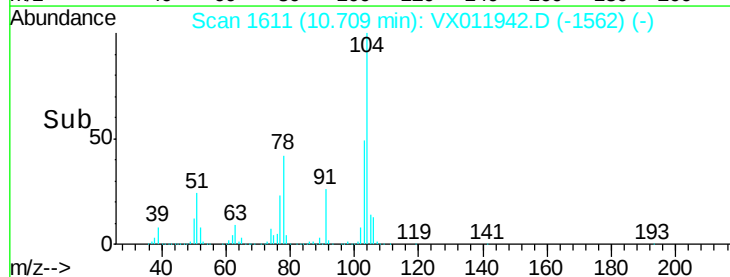
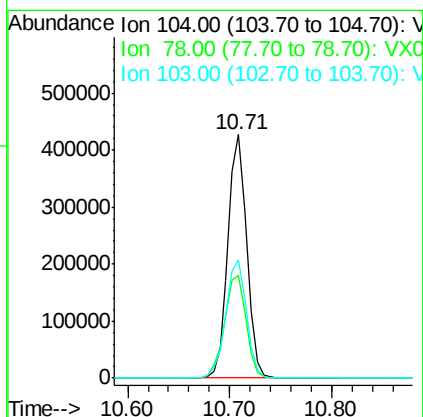
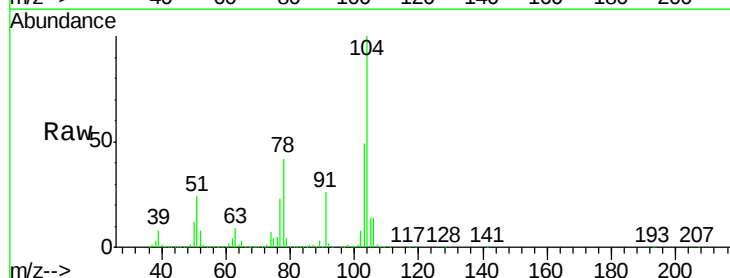
Manual Integrations
APPROVED

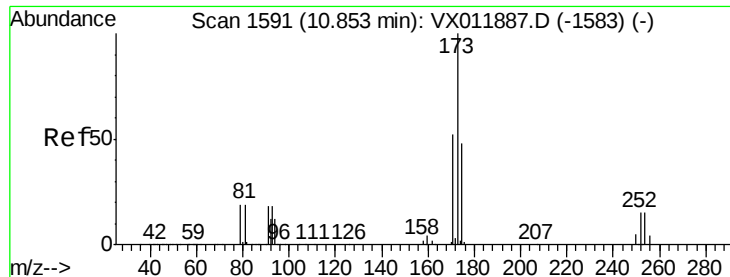
sam
9/3/2019 12:52:13 PM



#70
Styrene
Concen: 54.554 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.2	58.8
103	53.7	43.0	64.6





#71

Bromoform

Concen: 52.248 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

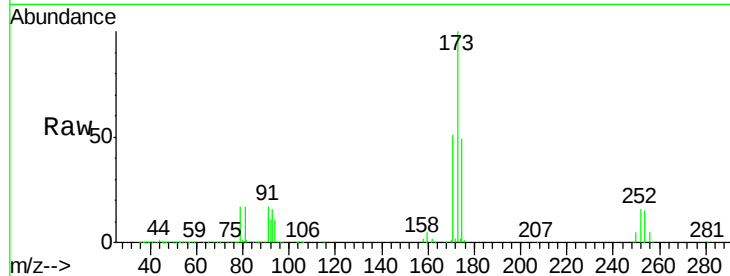
ClientSampleId :

VSTDCCC050

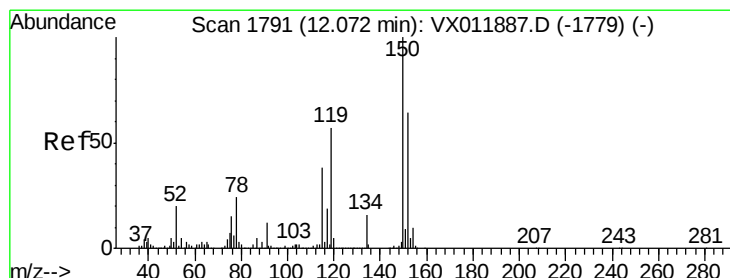
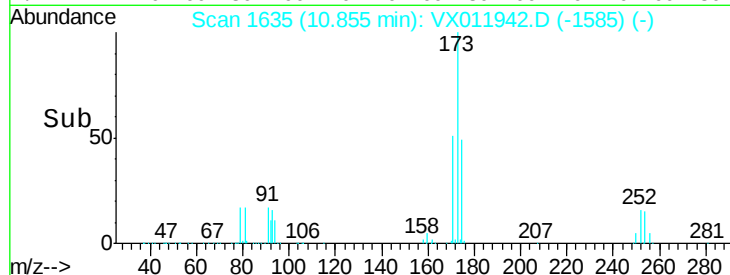
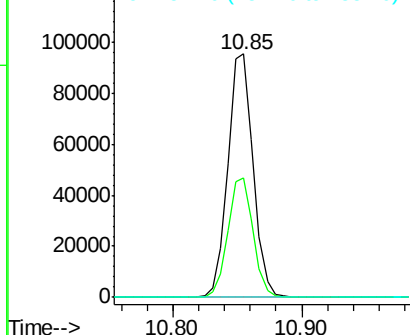
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.4	73.2
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

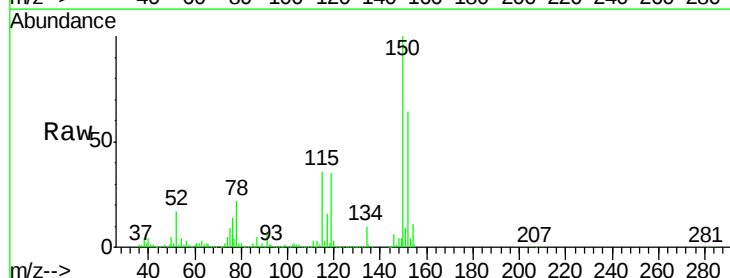
RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

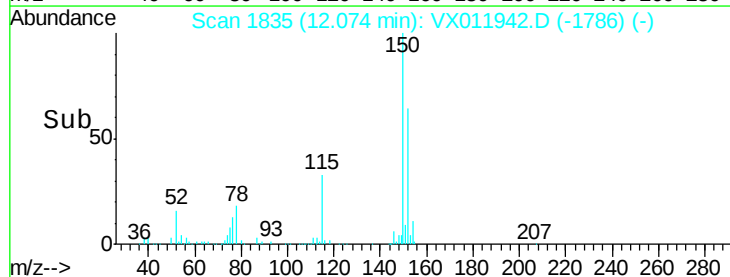
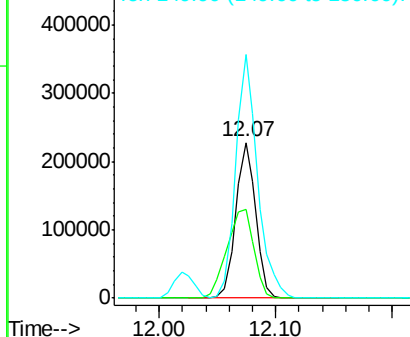
Lab File: VX011942.D

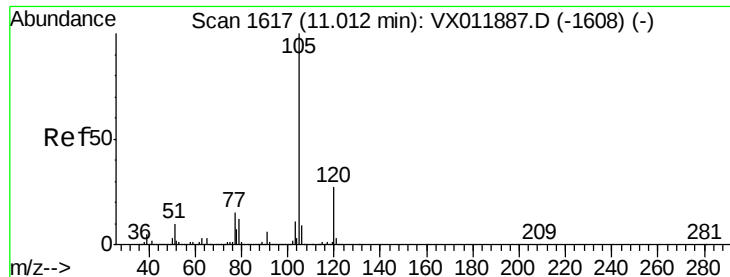
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	77.2	37.1	111.3
150	172.3	0.0	339.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 55.689 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 865796

Ion Ratio Lower Upper

105 100

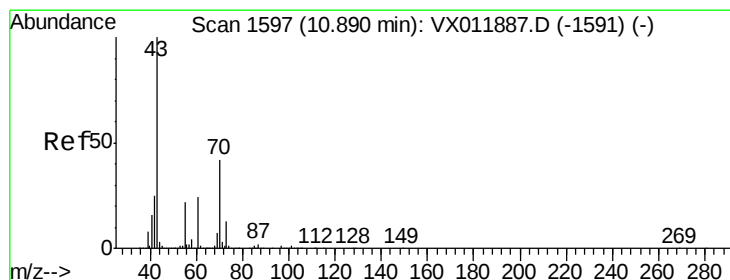
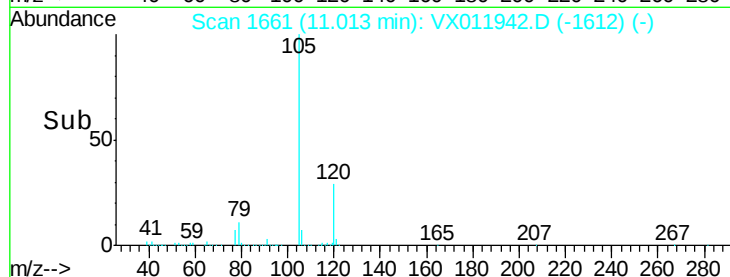
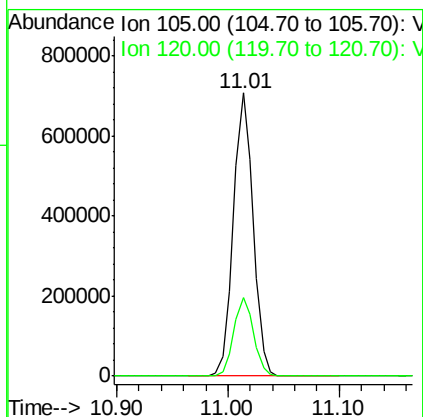
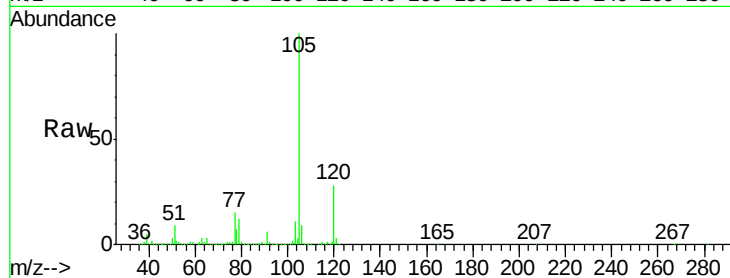
120 27.9 13.8 41.4

Manual Integrations

APPROVED

sam

9/3/2019 12:52:13 PM



#74

N-ethyl acetate

Concen: 46.388 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion: 43 Resp: 214023

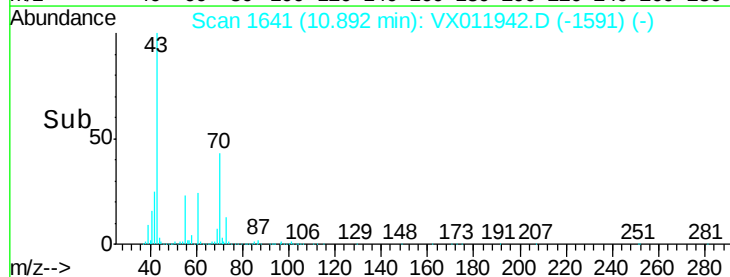
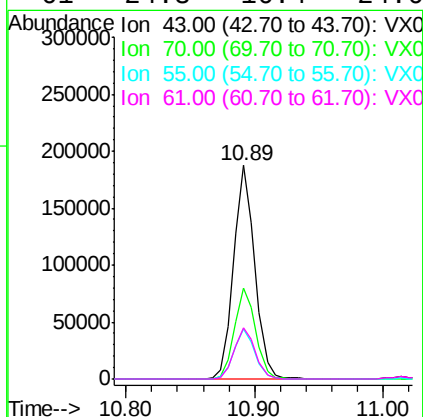
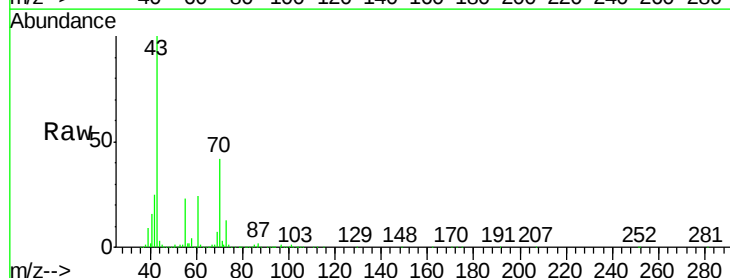
Ion Ratio Lower Upper

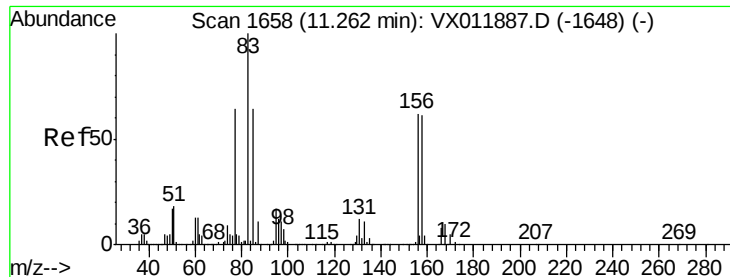
43 100

70 42.9 0.2 0.2#

55 23.3 0.1 0.1#

61 24.3 16.4 24.6





#75

1,1,2,2-Tetrachloroethane

Concen: 48.152 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

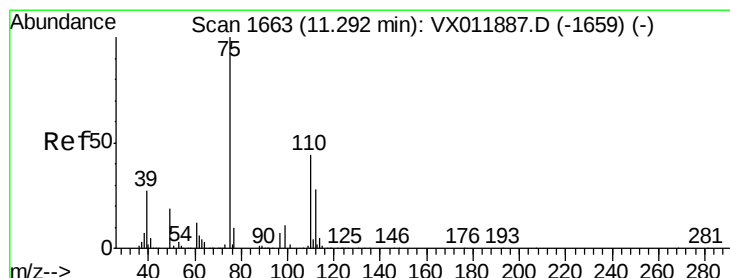
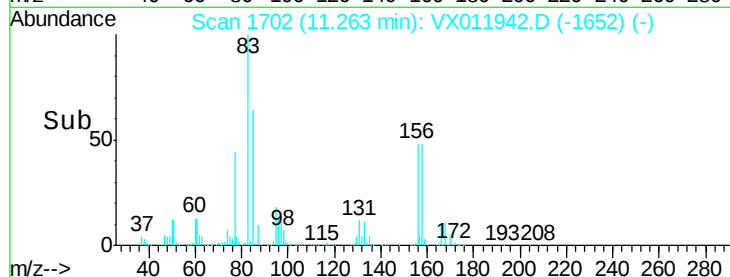
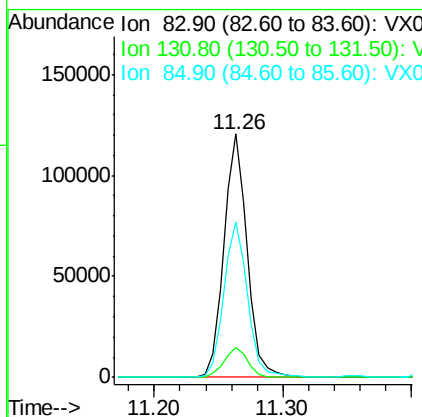
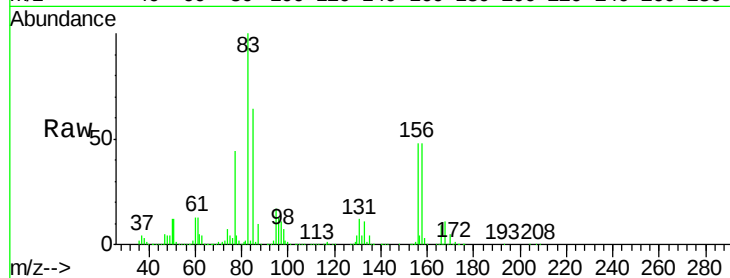
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	153209
Ion	Ratio	Lower	Upper
83	100		
131	12.5	6.0	18.0
85	65.2	31.9	95.9

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#76

1,2,3-Trichloropropane

Concen: 43.579 ug/l m

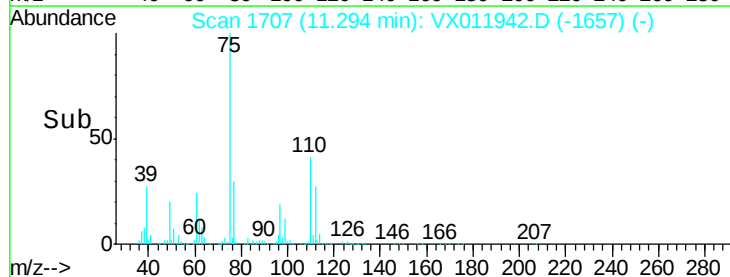
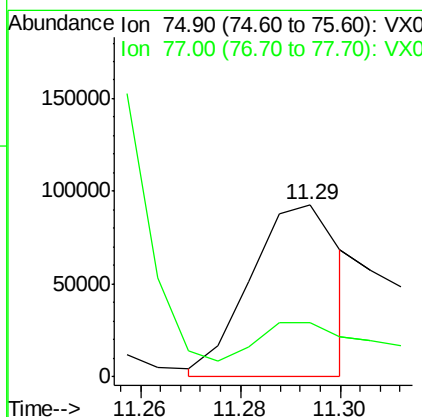
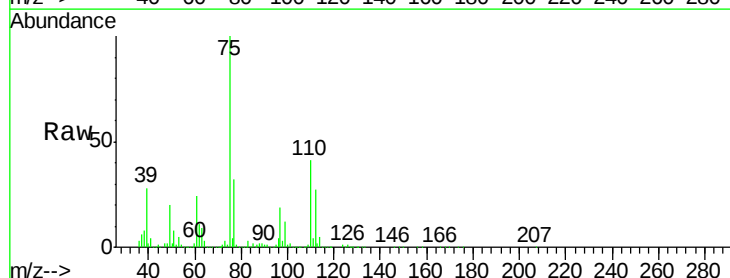
RT: 11.29 min Scan# 1707

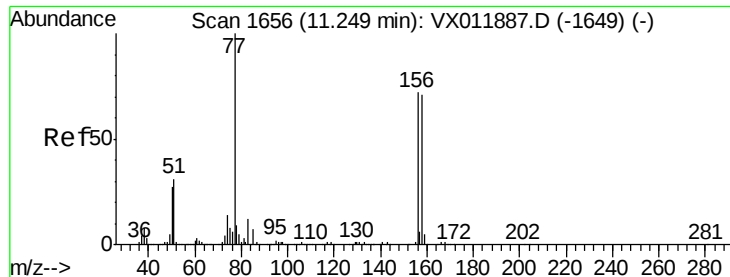
Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	75	Resp:	115994
Ion	Ratio	Lower	Upper
75	100		
77	45.6	20.9	62.7





#77

Bromobenzene

Concen: 53.220 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

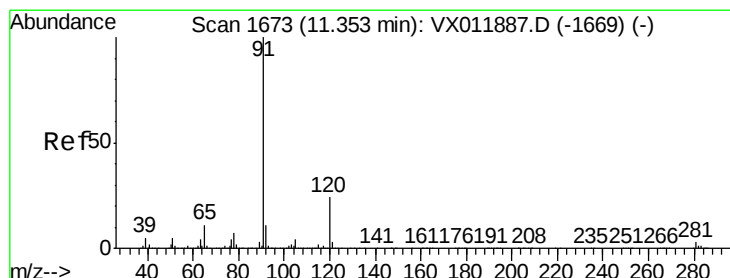
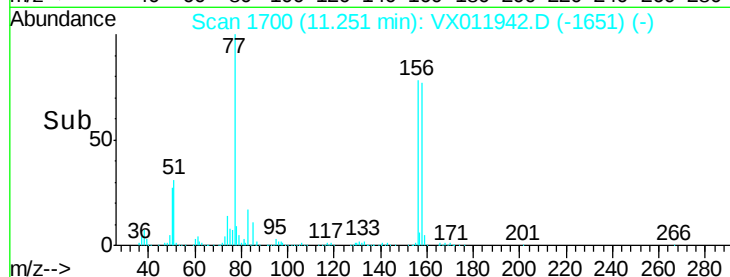
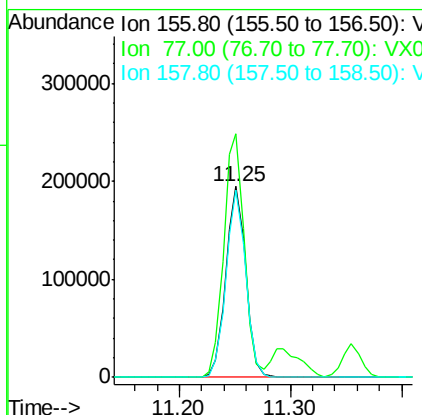
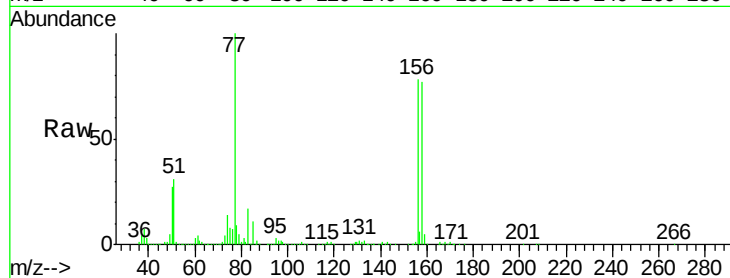
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	239969
Ion Ratio	Lower	Upper	
156	100		
77	131.9	68.1	204.3
158	97.2	48.9	146.8

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#78

n-propylbenzene

Concen: 56.092 ug/l

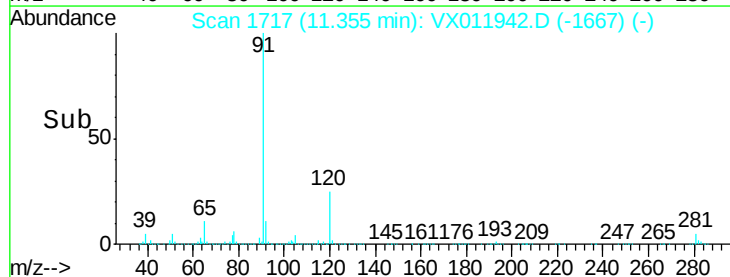
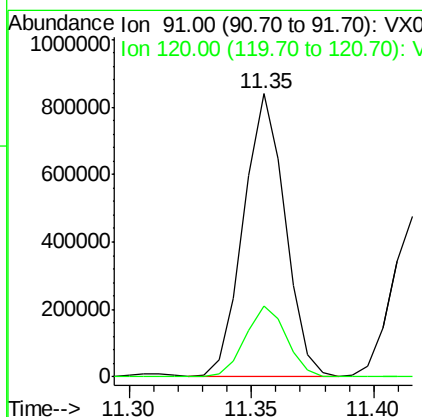
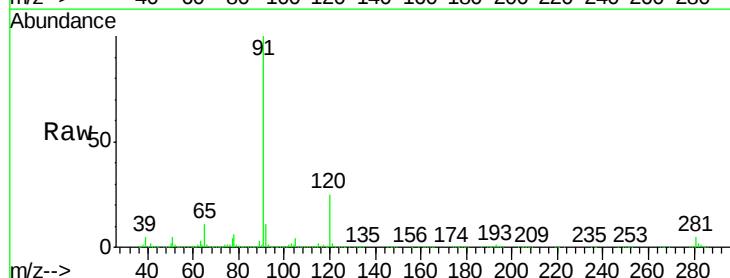
RT: 11.35 min Scan# 1717

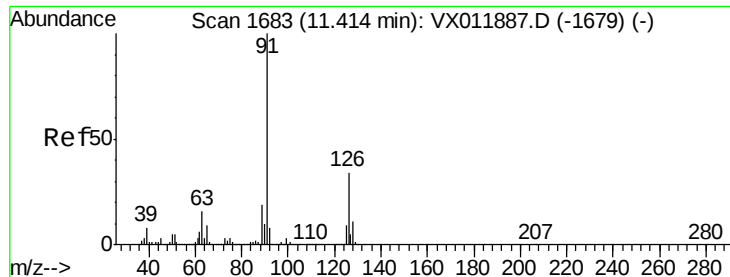
Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	91	Resp:	988884
Ion Ratio	Lower	Upper	
91	100		
120	25.0	12.3	36.9





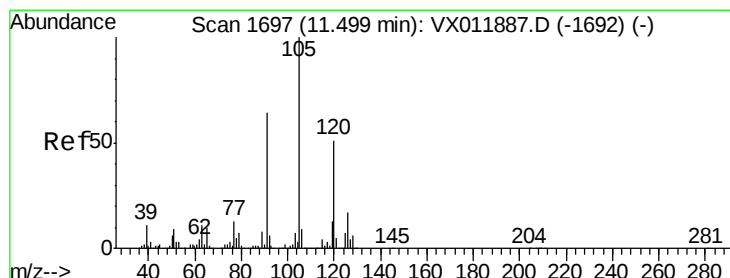
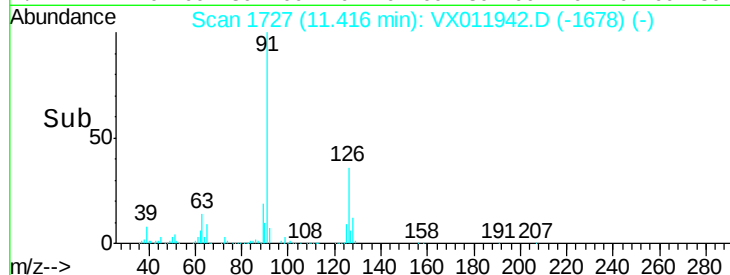
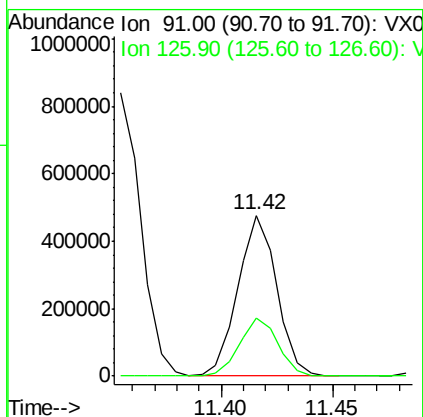
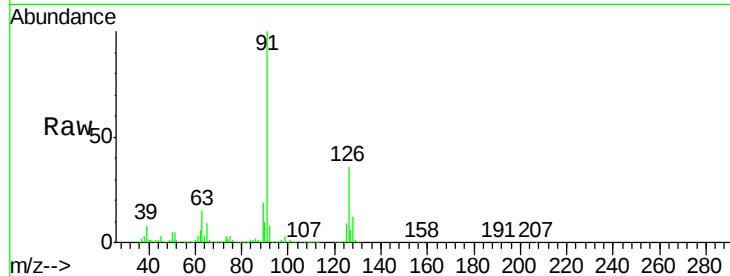
#79
2-Chlorotoluene
Concen: 54.367 ug/l
RT: 11.42 min Scan# 1727
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 576917
Ion Ratio Lower Upper
91 100
126 36.3 17.9 53.8

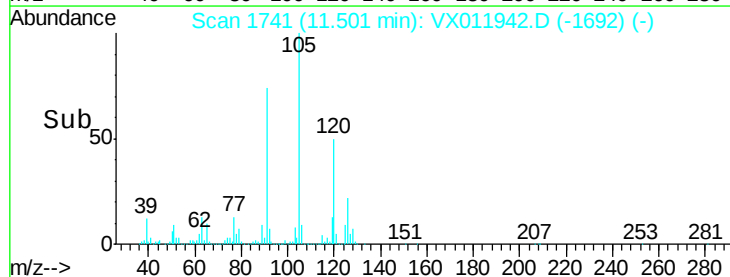
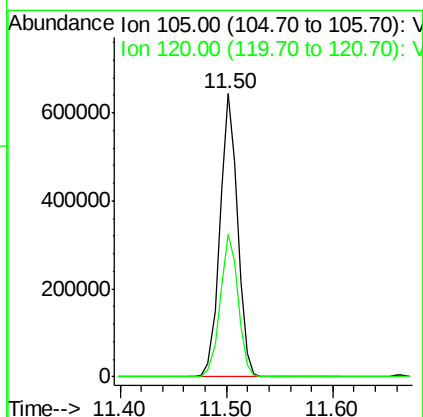
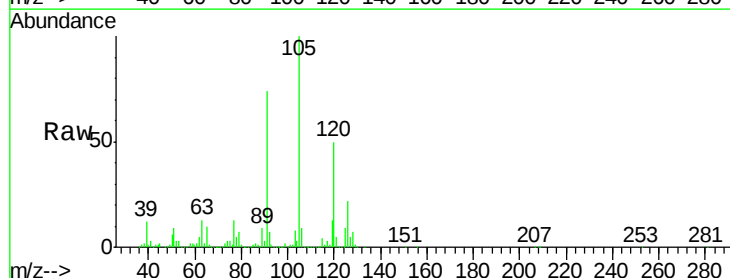
Manual Integrations
APPROVED

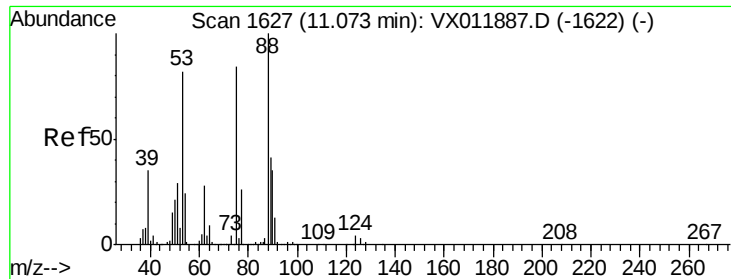
sam
9/3/2019 12:52:13 PM



#80
1,3,5-Trimethylbenzene
Concen: 55.185 ug/l
RT: 11.50 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion: 105 Resp: 740552
Ion Ratio Lower Upper
105 100
120 51.0 25.3 75.9





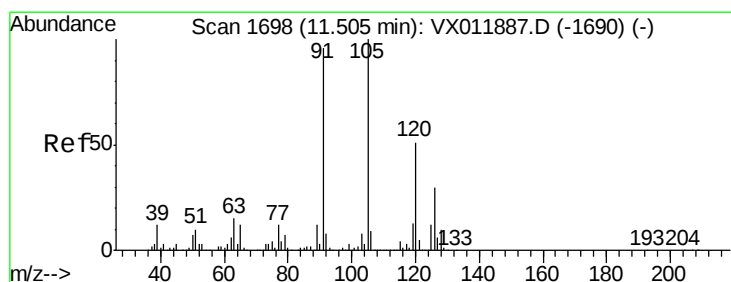
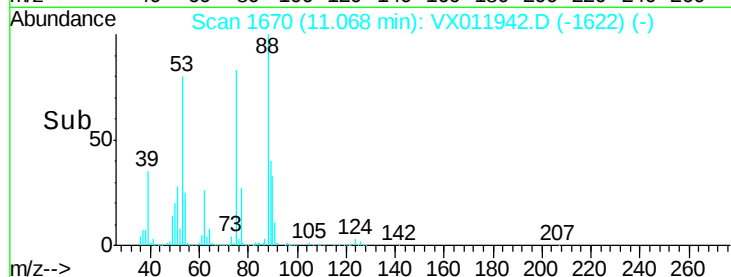
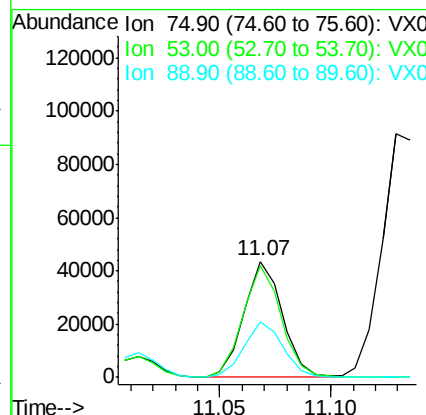
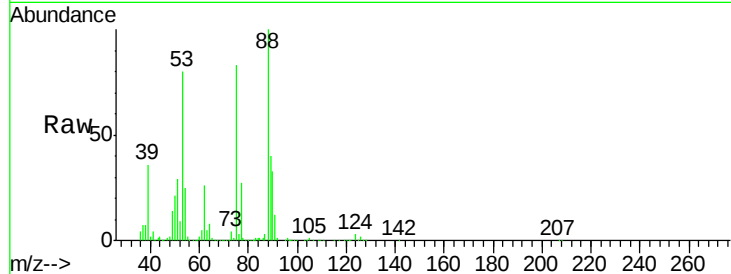
#81
trans-1,4-Dichloro-2-butene
Concen: 49.406 ug/l
RT: 11.07 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	95.4	77.1	115.7
89	49.0	38.2	57.2

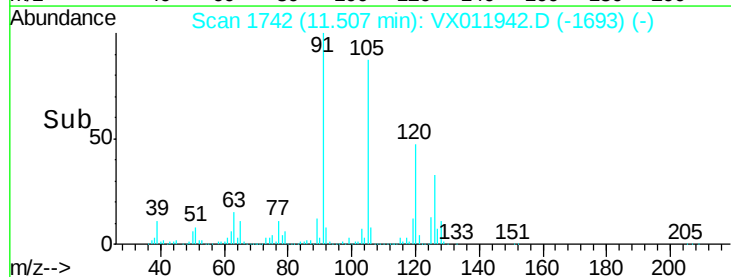
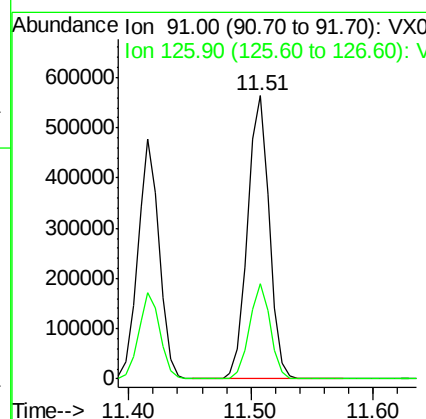
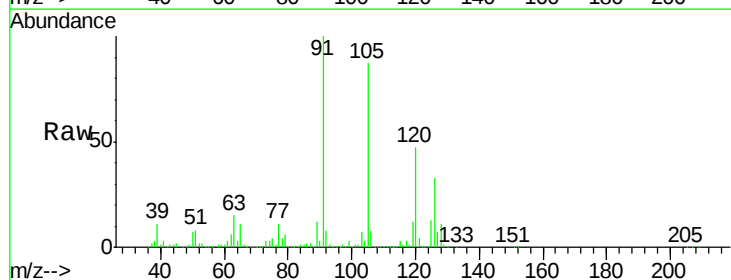
Manual Integrations
APPROVED

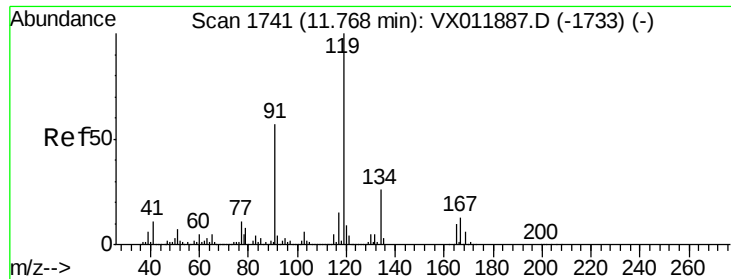
sam
9/3/2019 12:52:13 PM



#82
4-Chlorotoluene
Concen: 54.006 ug/l
RT: 11.51 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.9	47.6





#83

tert-Butylbenzene

Concen: 56.928 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

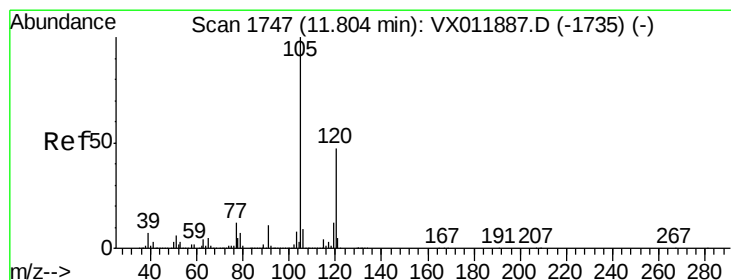
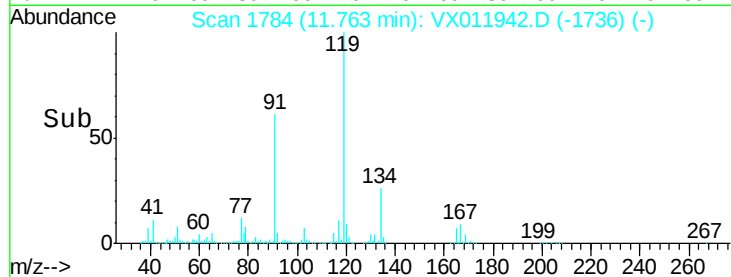
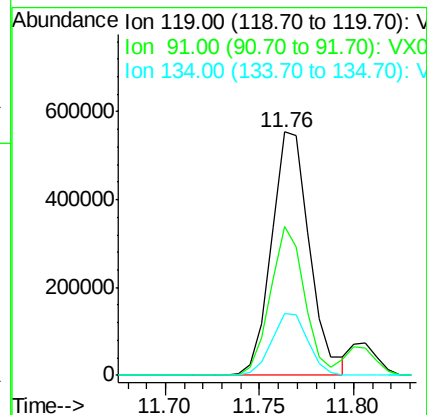
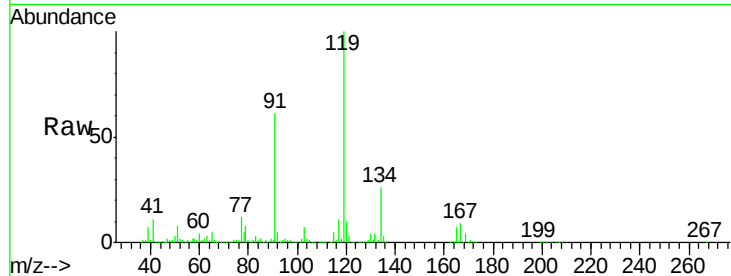
ClientSampled :

VSTDCCC050

Tot Ion:	119	Resp:	775157
Ion Ratio	Lower	Upper	
119	100		
91	54.7	27.9	83.6
134	24.4	12.3	36.8

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#84

1,2,4-Trimethylbenzene

Concen: 54.092 ug/l

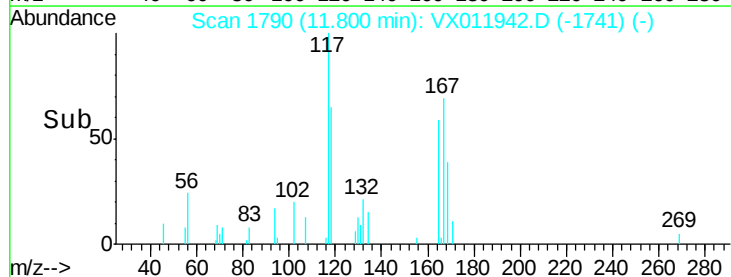
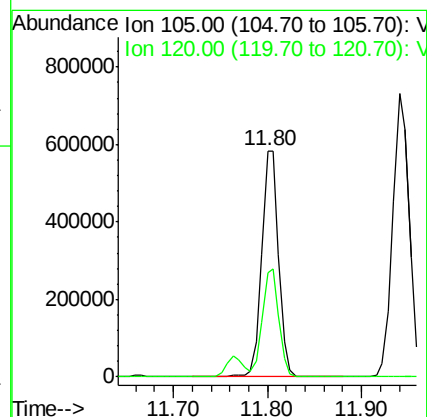
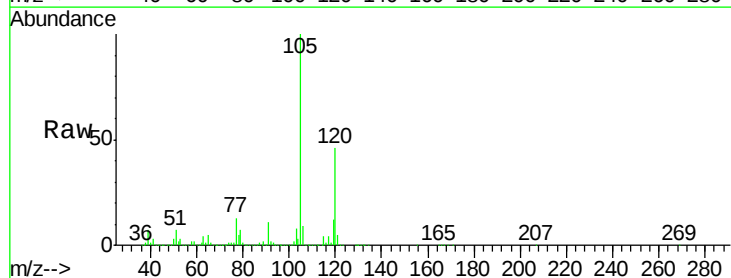
RT: 11.80 min Scan# 1790

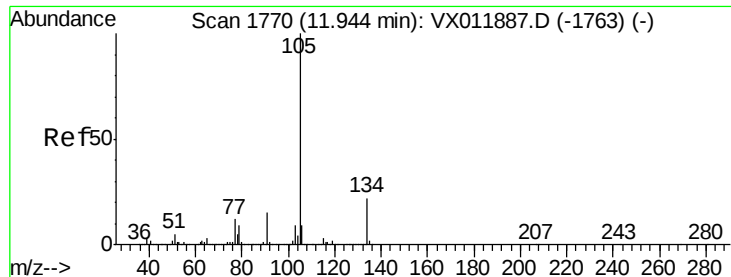
Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	105	Resp:	743908
Ion Ratio	Lower	Upper	
105	100		
120	46.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 56.255 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 889716

Ion Ratio Lower Upper

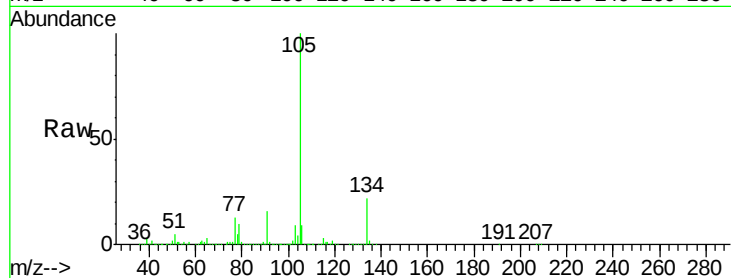
105 100

134 22.1 10.9 32.7

Manual Integrations
APPROVED

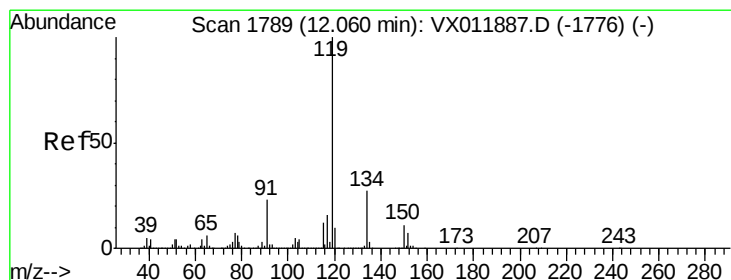
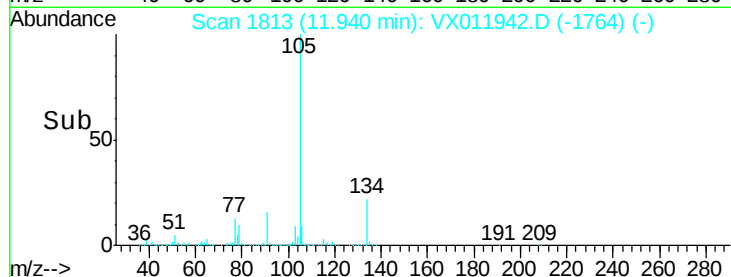
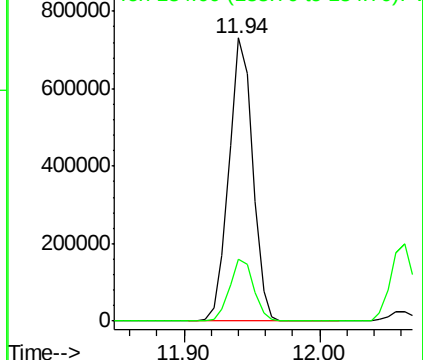
sam

9/3/2019 12:52:13 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 56.573 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

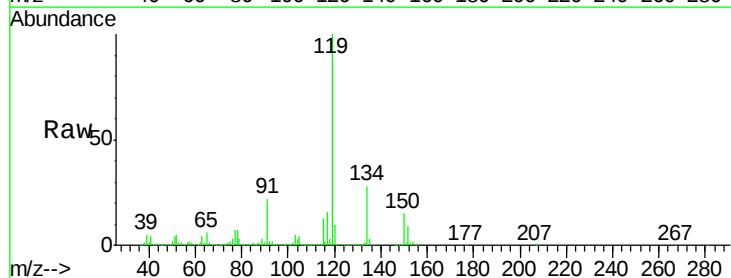
Tgt Ion:119 Resp: 867610

Ion Ratio Lower Upper

119 100

134 27.4 13.7 41.0

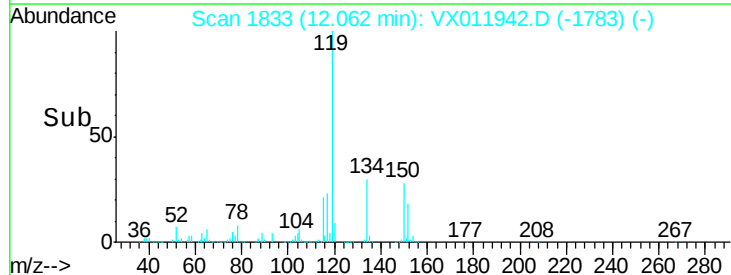
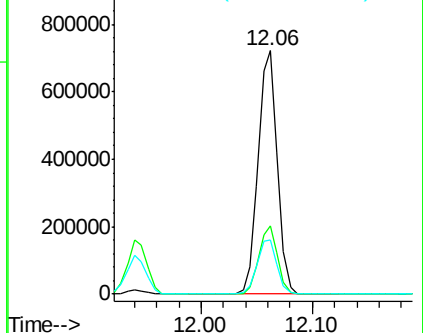
91 23.0 11.6 34.7

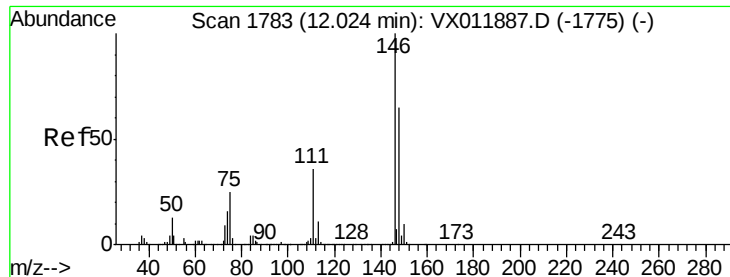


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





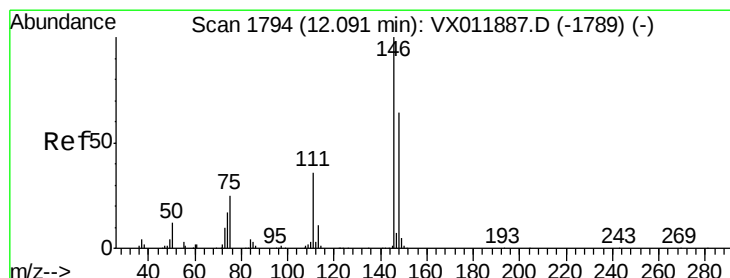
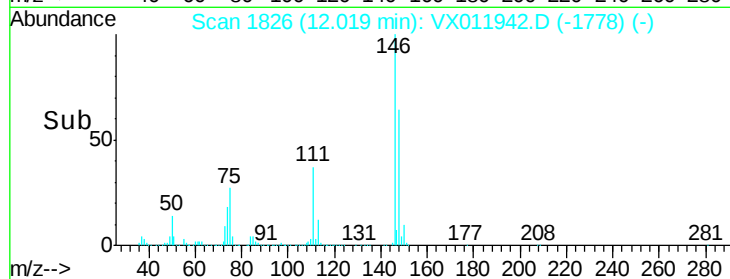
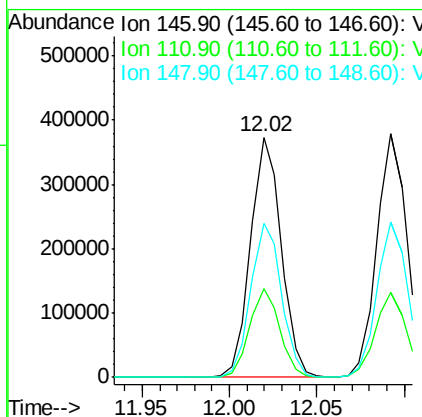
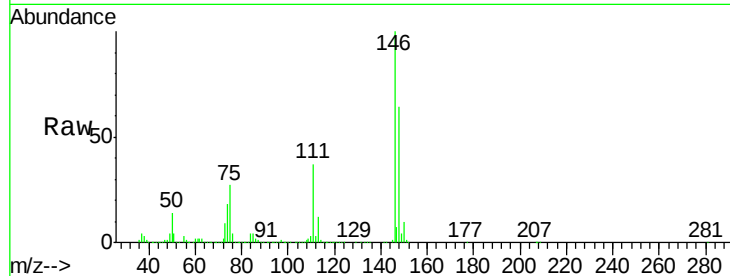
#87
 1,3-Dichlorobenzene
 Concen: 54.406 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.4	55.2
148	64.4	32.1	96.5

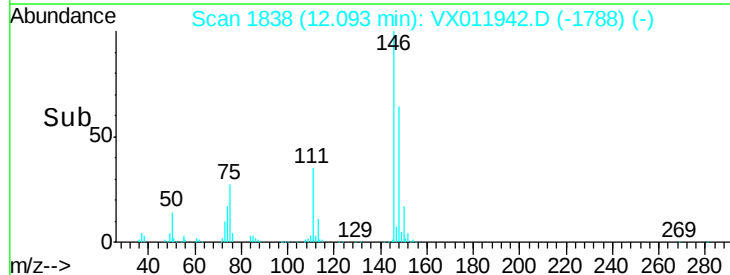
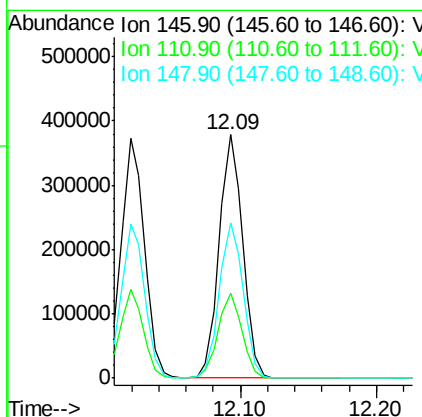
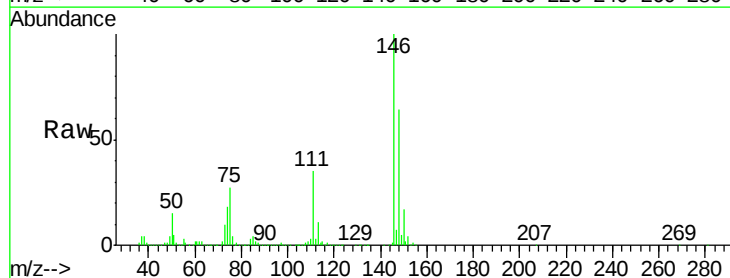
Manual Integrations
 APPROVED

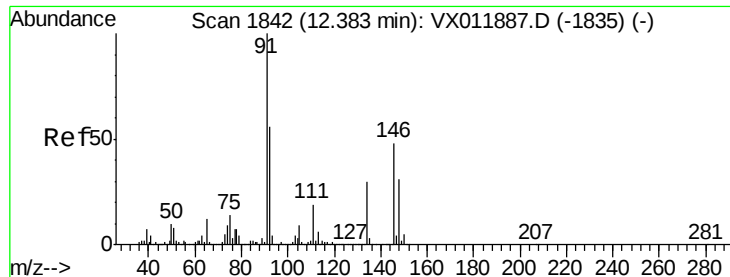
sam
 9/3/2019 12:52:13 PM



#88
 1,4-Dichlorobenzene
 Concen: 53.805 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.3	17.9	53.7
148	64.5	32.4	97.0





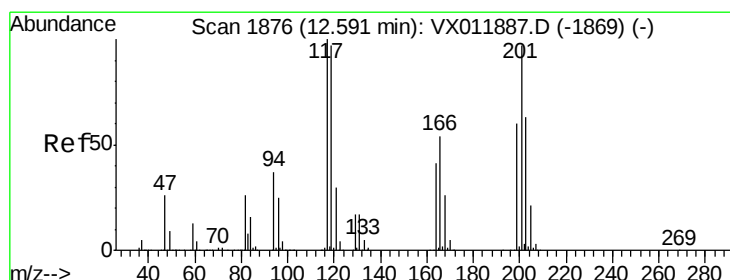
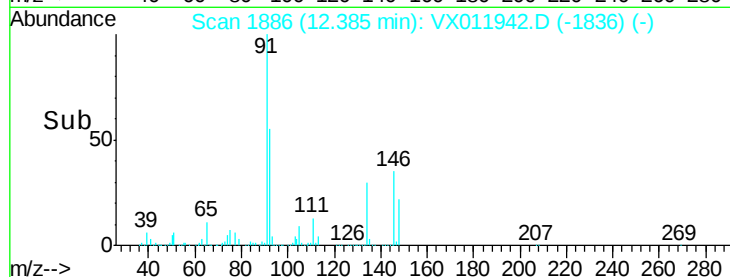
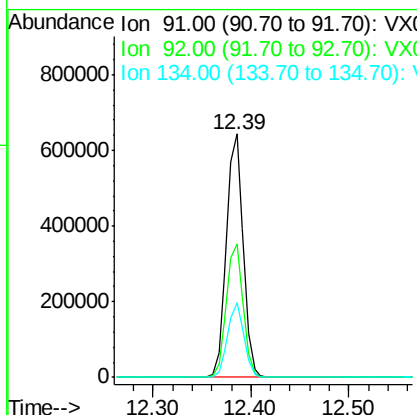
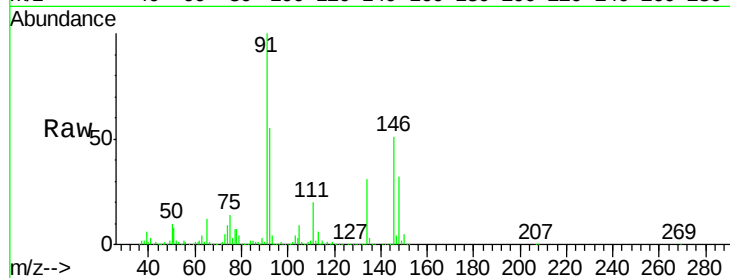
#89
n-Butylbenzene
Concen: 56.267 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.8	27.6	82.8
134	29.9	14.8	44.3

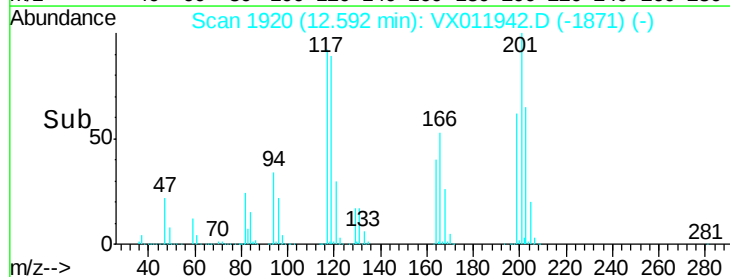
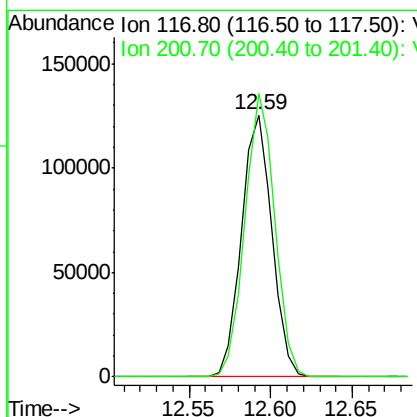
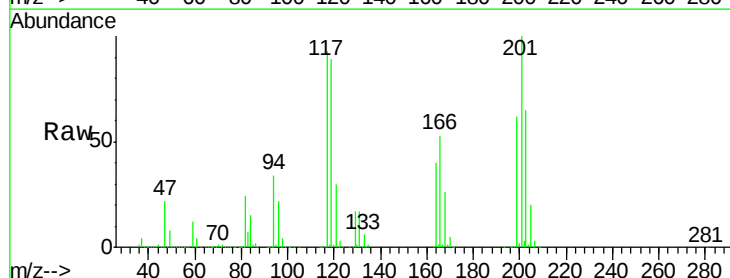
Manual Integrations
APPROVED

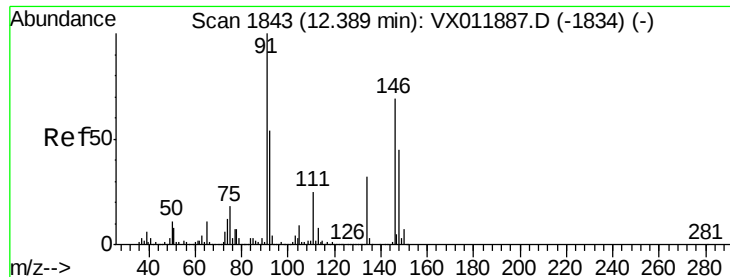
sam
9/3/2019 12:52:13 PM



#90
Hexachloroethane
Concen: 55.011 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VX011942.D
Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	106.6	52.8	158.5





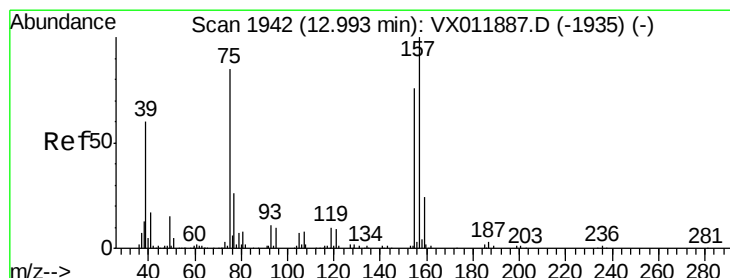
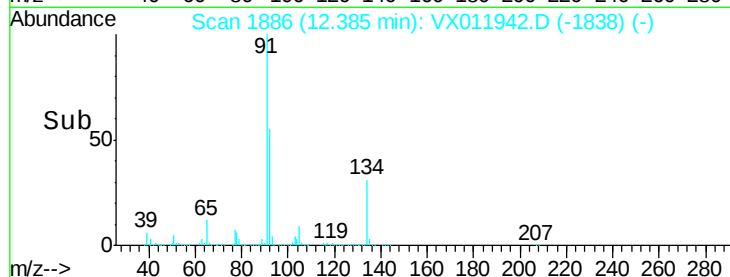
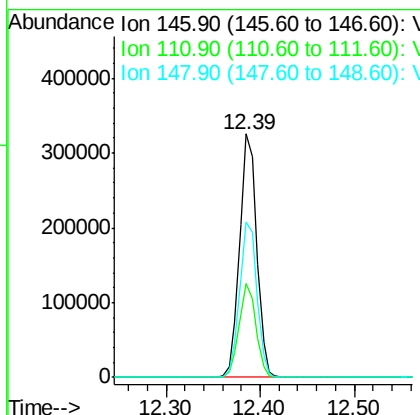
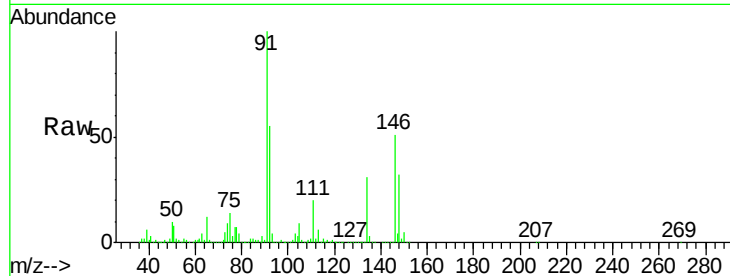
#91
 1,2-Dichlorobenzene
 Concen: 52.755 ug/l
 RT: 12.39 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	411022		
111	37.8	18.9	56.5	
148	64.8	32.1	96.3	

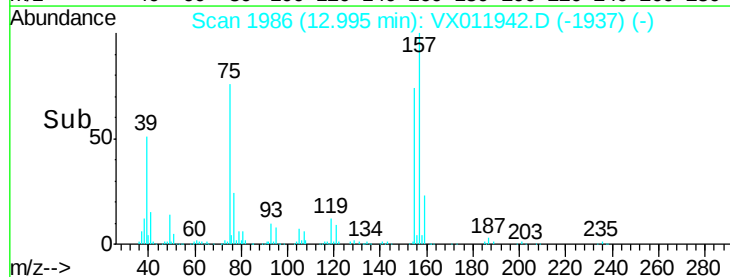
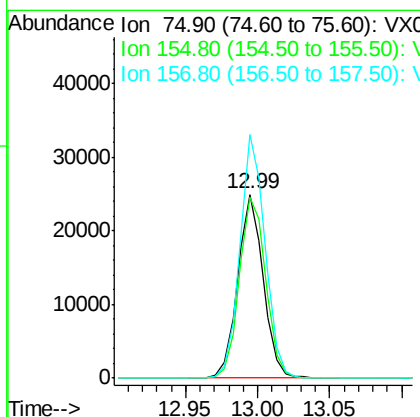
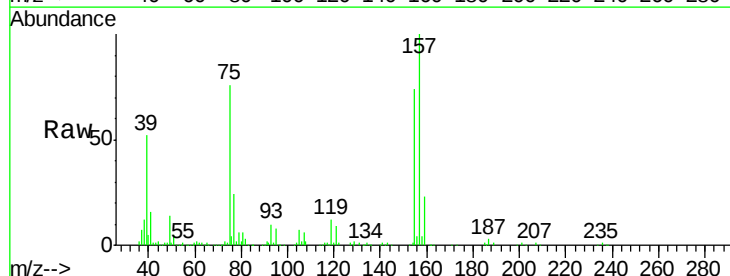
Manual Integrations
 APPROVED

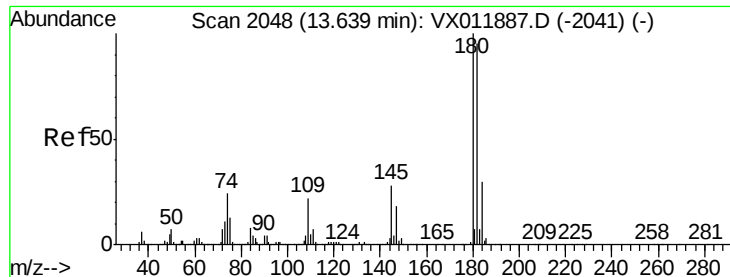
sam
 9/3/2019 12:52:13 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.624 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	30818		
155	100.7	50.1	150.4	
157	129.6	63.9	191.7	





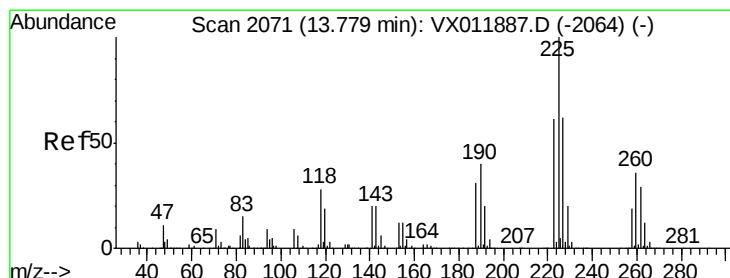
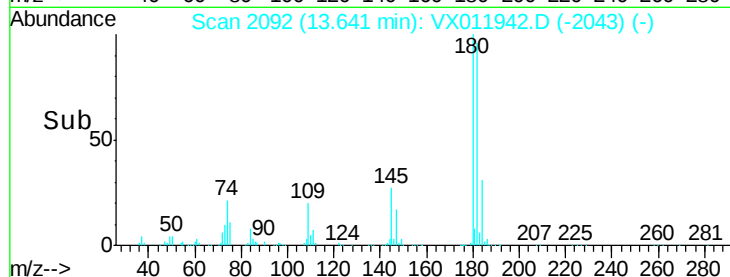
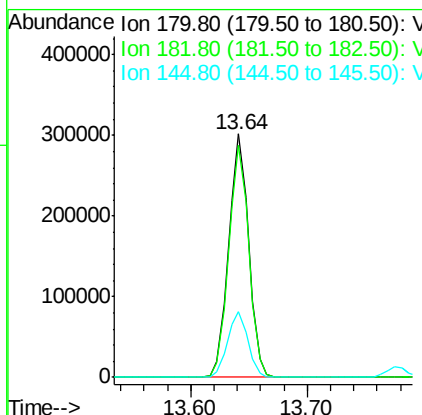
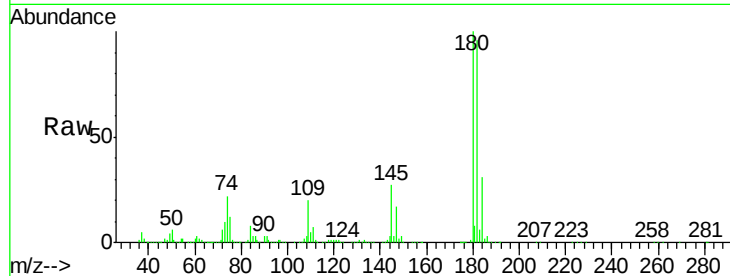
#93
 1,2,4-Trichlorobenzene
 Concen: 54.646 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	358490		
182	96.2	48.1	144.4	
145	27.5	13.8	41.3	

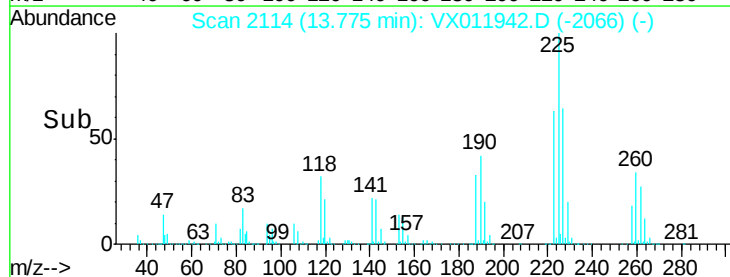
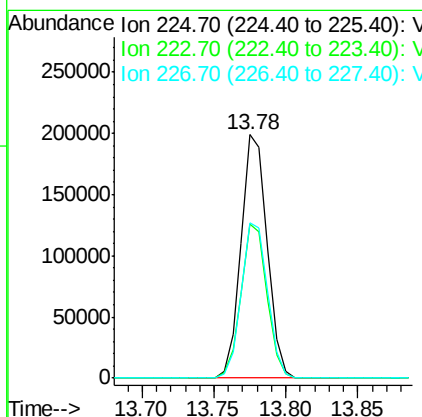
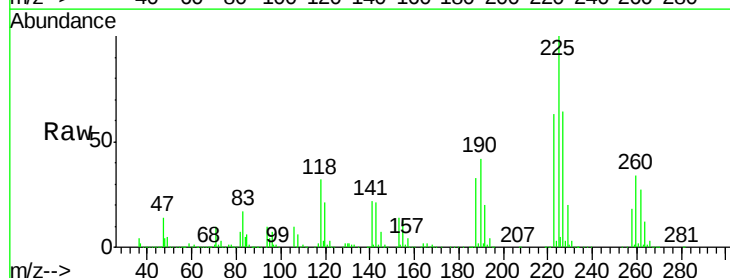
Manual Integrations
 APPROVED

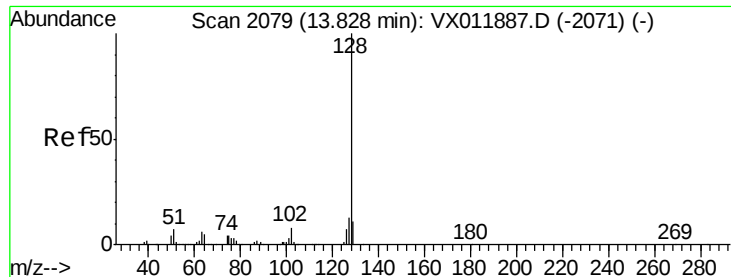
sam
 9/3/2019 12:52:13 PM



#94
 Hexachlorobutadiene
 Concen: 56.889 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VX011942.D
 Acq: 31 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	249238		
223	63.0	30.8	92.3	
227	64.5	31.9	95.7	





#95

Naphthalene

Concen: 50.052 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Instrument :

MSVOA_X

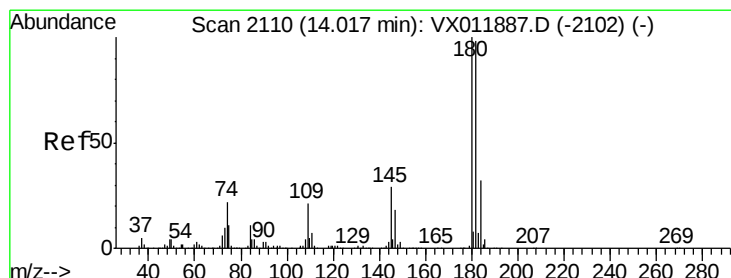
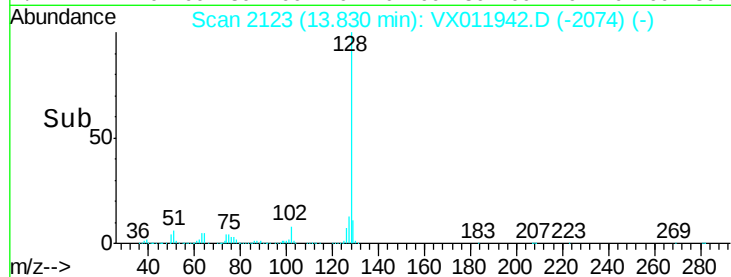
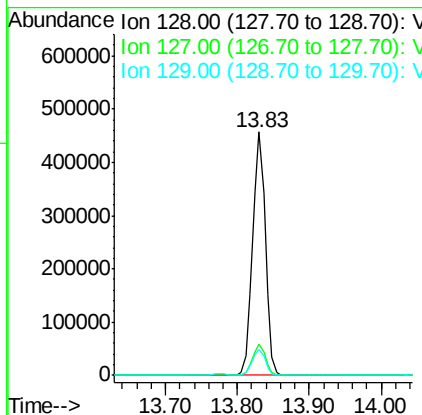
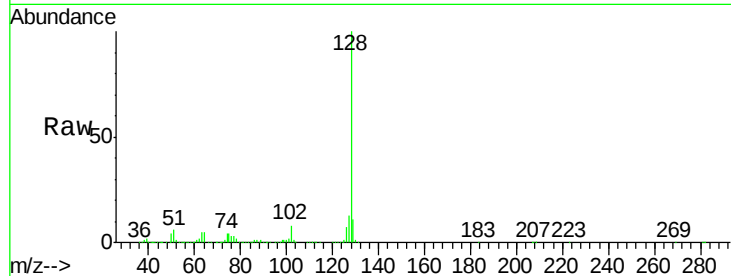
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	563527
Ion Ratio		Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	8.8	13.2

Manual Integrations
APPROVED

sam
9/3/2019 12:52:13 PM



#96

1,2,3-Trichlorobenzene

Concen: 53.364 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VX011942.D

Acq: 31 Aug 2019 10:58

Tgt Ion:	180	Resp:	316576
Ion Ratio		Lower	Upper
180	100		
182	96.5	48.3	144.8
145	28.4	14.6	43.8

