

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064589.D
 Acq On : 26 Dec 2019 10:03
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/27/2019 2:06:55 PM

Quant Time: Dec 27 02:26:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	492540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	696963	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	611988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	296605	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	202657	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	
35) Dibromofluoromethane	7.92	113	205577	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
50) Toluene-d8	10.34	98	808230	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.64	95	251496	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	188846	49.336	ug/l	98
3) Chloromethane	2.21	50	261648	48.876	ug/l	98
4) Vinyl Chloride	2.35	62	314866	48.239	ug/l	95
5) Bromomethane	2.77	94	213276	44.939	ug/l	98
6) Chloroethane	2.92	64	207076	47.347	ug/l	96
7) Trichlorofluoromethane	3.27	101	525492	47.814	ug/l	99
8) Diethyl Ether	3.70	74	101190	46.366	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	223293	49.059	ug/l	98
10) Methyl Iodide	4.29	142	254644	52.084	ug/l	99
11) Tert butyl alcohol	5.25	59	62189	249.847	ug/l	96
12) 1,1-Dichloroethene	4.06	96	217639	50.225	ug/l	99
13) Acrolein	3.93	56	83598	240.992	ug/l	97
14) Allyl chloride	4.71	41	343941	50.908	ug/l	98
15) Acrylonitrile	5.43	53	208559	229.423	ug/l	98
16) Acetone	4.16	43	265668	296.532	ug/l	98
17) Carbon Disulfide	4.40	76	691274	49.336	ug/l	99
18) Methyl Acetate	4.73	43	106425	43.525	ug/l	100
19) Methyl tert-butyl Ether	5.49	73	462569	48.060	ug/l	96
20) Methylene Chloride	4.96	84	220972	49.720	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	246909	50.033	ug/l	98
22) Diisopropyl ether	6.37	45	662967	49.197	ug/l	99
23) Vinyl Acetate	6.31	43	1901166	248.705	ug/l	100
24) 1,1-Dichloroethane	6.26	63	405980	50.183	ug/l	97
25) 2-Butanone	7.22	43	303553	254.268	ug/l	99
26) 2,2-Dichloropropane	7.21	77	381630	50.738	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	262790	49.341	ug/l	98
28) Bromochloromethane	7.55	49	155655	49.496	ug/l	98
29) Tetrahydrofuran	7.57	42	172390	232.202	ug/l	99
30) Chloroform	7.71	83	410181	48.327	ug/l	98
31) Cyclohexane	7.98	56	390318	48.199	ug/l	95
32) 1,1,1-Trichloroethane	7.90	97	400293	50.211	ug/l	100
36) 1,1-Dichloropropene	8.11	75	335670	50.038	ug/l	98
37) Ethyl Acetate	7.30	43	129150	49.007	ug/l	100
38) Carbon Tetrachloride	8.10	117	375143	52.446	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064589.D
 Acq On : 26 Dec 2019 10:03
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 12/27/2019 2:06:55 PM

Quant Time: Dec 27 02:26:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	423021	52.065	ug/l	97
40) Benzene	8.35	78	923800	50.446	ug/l	98
41) Methacrylonitrile	7.53	41	74929	49.004	ug/l	94
42) 1,2-Dichloroethane	8.43	62	260597	49.244	ug/l	99
43) Isopropyl Acetate	8.46	43	248997	47.469	ug/l	99
44) Trichloroethene	9.11	130	270309	50.246	ug/l	94
45) 1,2-Dichloropropane	9.38	63	219964	50.307	ug/l	98
46) Dibromomethane	9.47	93	118634	48.665	ug/l	98
47) Bromodichloromethane	9.66	83	321471	49.557	ug/l	100
48) Methyl methacrylate	9.46	41	117308	47.496	ug/l	92
49) 1,4-Dioxane	9.46	88	27064	962.817	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	610295	235.389	ug/l	99
52) Toluene	10.40	92	604973	50.353	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	302957	50.094	ug/l	100
54) cis-1,3-Dichloropropene	10.09	75	360749	50.587	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	160736	48.926	ug/l	97
56) Ethyl methacrylate	10.66	69	200577	48.886	ug/l	99
57) 1,3-Dichloropropane	10.95	76	271833	48.055	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	351551	224.894	ug/l	98
59) 2-Hexanone	10.98	43	461862	262.463	ug/l	99
60) Dibromochloromethane	11.14	129	218738	48.147	ug/l	100
61) 1,2-Dibromoethane	11.25	107	159376	49.185	ug/l	97
64) Tetrachloroethene	10.88	164	234345	49.913	ug/l	97
65) Chlorobenzene	11.67	112	622462	49.006	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.74	131	237564	49.613	ug/l	100
67) Ethyl Benzene	11.74	91	1163430	50.465	ug/l	100
68) m/p-Xylenes	11.86	106	897173	100.823	ug/l	98
69) o-Xylene	12.18	106	402442	50.070	ug/l	98
70) Styrene	12.20	104	710616	50.369	ug/l	98
71) Bromoform	12.37	173	130747	47.881	ug/l #	99
73) Isopropylbenzene	12.48	105	1117155	52.706	ug/l	100
74) N-amyl acetate	12.29	43	231205	51.028	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	163010	48.956	ug/l	100
76) 1,2,3-Trichloropropane	12.78	75	96635m	41.259	ug/l	
77) Bromobenzene	12.77	156	261528	50.215	ug/l	98
78) n-propylbenzene	12.83	91	1299262	52.542	ug/l	99
79) 2-Chlorotoluene	12.91	91	694281	51.110	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	921387	52.918	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	57804	51.617	ug/l	98
82) 4-Chlorotoluene	13.01	91	745079	51.541	ug/l	100
83) tert-Butylbenzene	13.23	119	800293	52.938	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	903995	52.131	ug/l	100
85) sec-Butylbenzene	13.41	105	1104480	53.291	ug/l	99
86) p-Isopropyltoluene	13.53	119	1052193	53.095	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	501282	50.489	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	489593	50.197	ug/l	100
89) n-Butylbenzene	13.85	91	953902	53.451	ug/l	99
90) Hexachloroethane	14.12	117	193038	50.994	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	422945	49.957	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	25612	47.449	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD122619\
Data File : VD064589.D
Acq On : 26 Dec 2019 10:03
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

Quant Time: Dec 27 02:26:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	313996	50.371	ug/l	99
94) Hexachlorobutadiene	15.28	225	202710	51.676	ug/l	98
95) Naphthalene	15.41	128	490648	49.753	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	268623	50.477	ug/l	99

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

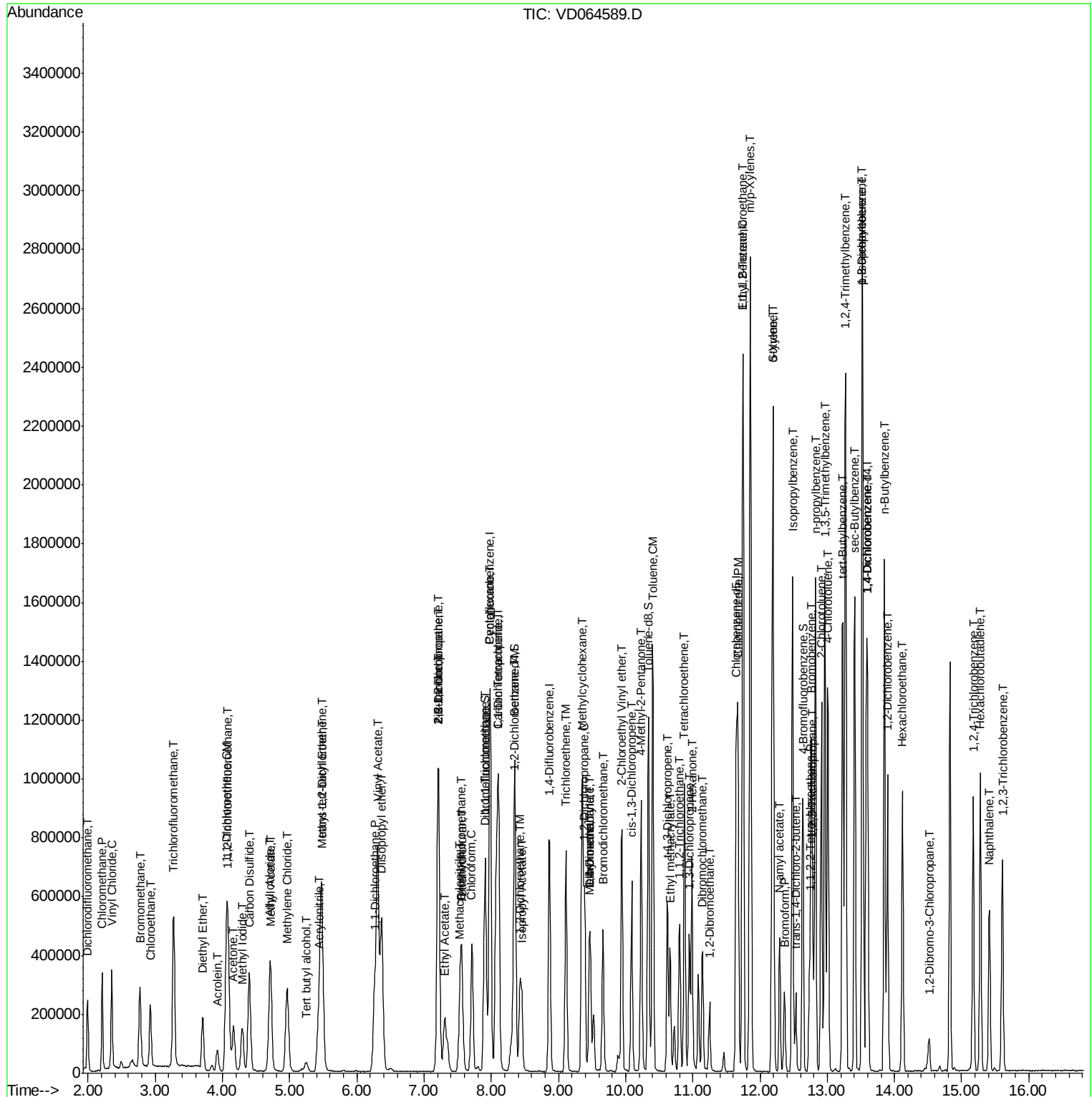
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD122619\
Data File : VD064589.D
Acq On : 26 Dec 2019 10:03
Operator : VA/SY
Sample : VSTDCCC050
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

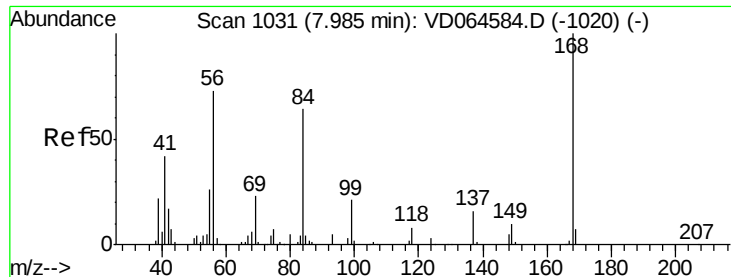
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

Quant Time: Dec 27 02:26:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 492540

Ion Ratio Lower Upper

168 100

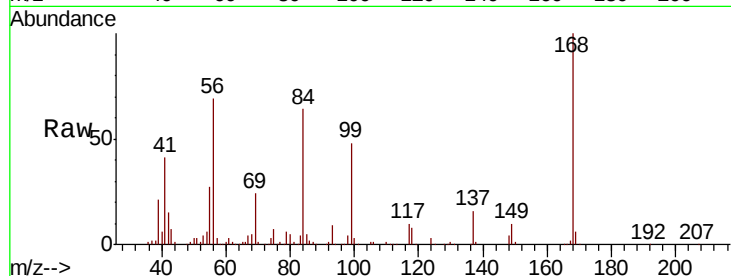
99 48.2 41.8 62.6

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

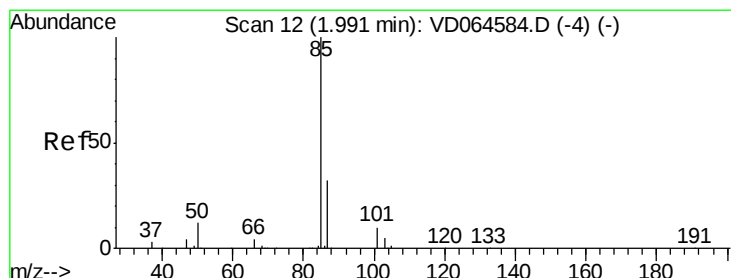
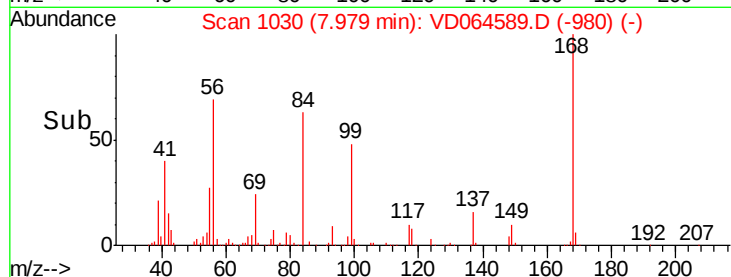
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 49.336 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064589.D

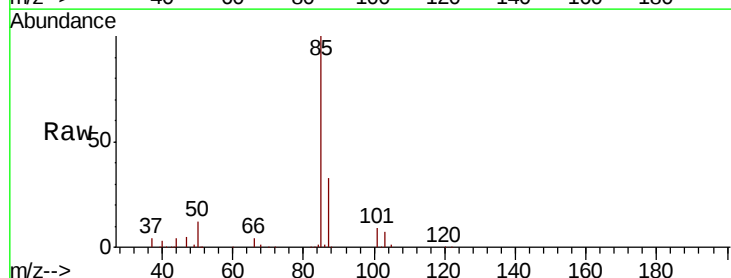
Acq: 26 Dec 2019 10:03

Tgt Ion: 85 Resp: 188846

Ion Ratio Lower Upper

85 100

87 33.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

150000

100000

50000

0

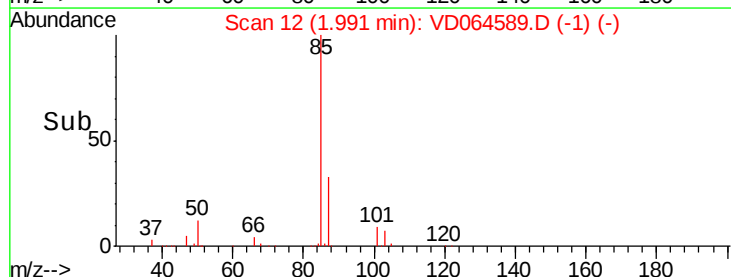
1.90

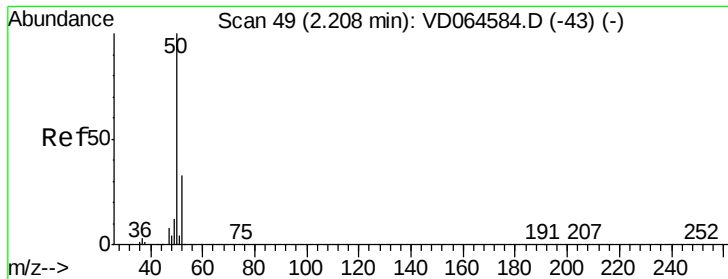
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 48.876 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 261648

Ion Ratio Lower Upper

50 100

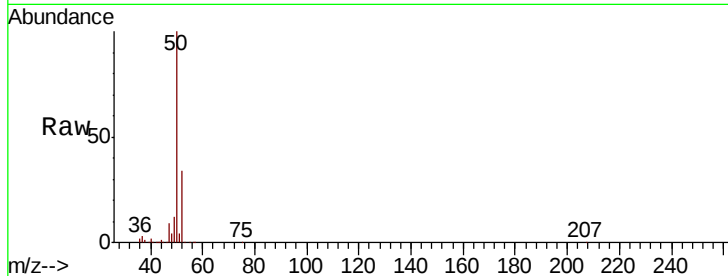
52 34.3 26.5 39.7

Manual Integrations

APPROVED

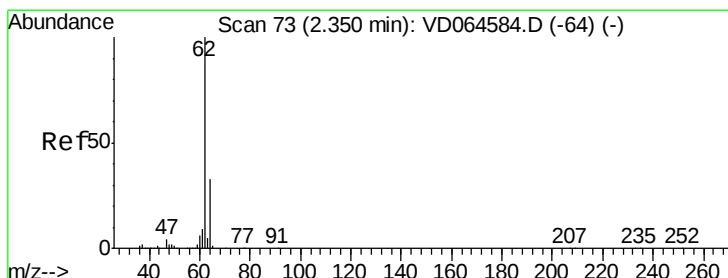
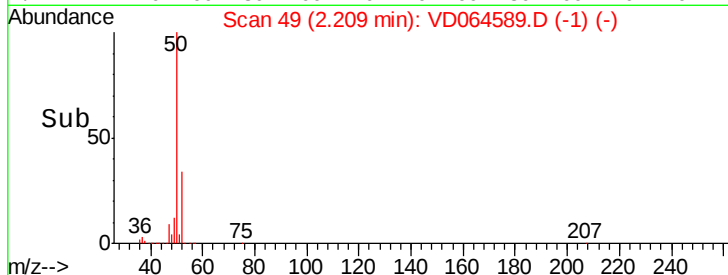
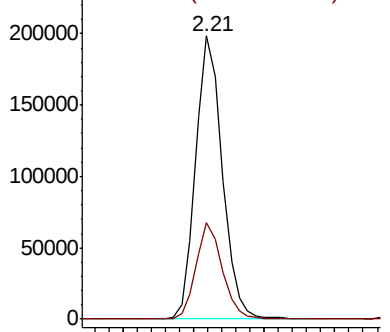
apatel

12/27/2019 2:06:55 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.239 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064589.D

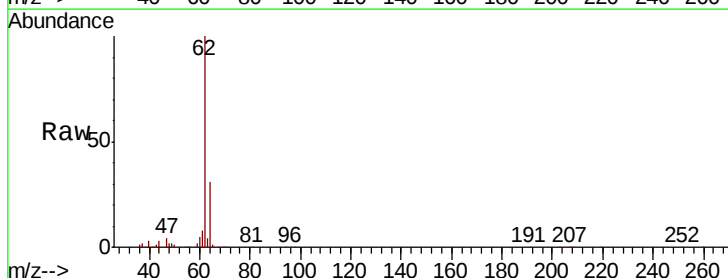
Acq: 26 Dec 2019 10:03

Tgt Ion: 62 Resp: 314866

Ion Ratio Lower Upper

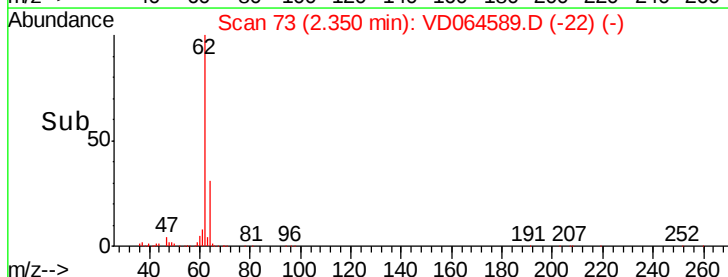
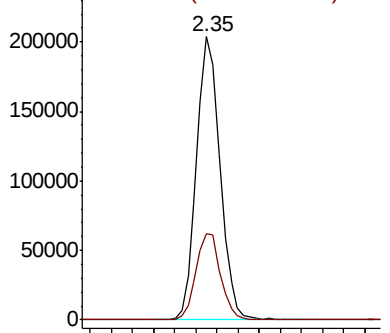
62 100

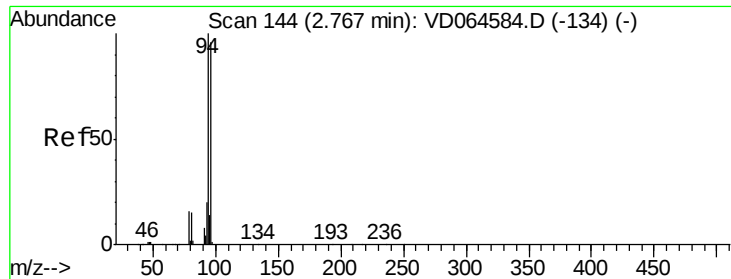
64 30.4 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 44.939 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 213276

Ion Ratio Lower Upper

94 100

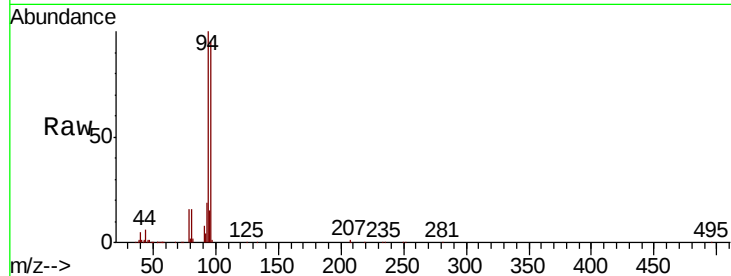
96 94.9 77.2 115.8

Manual Integrations

APPROVED

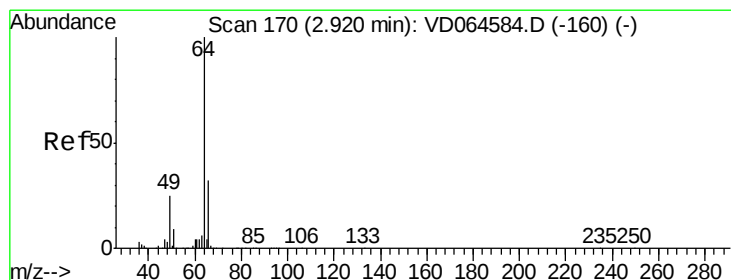
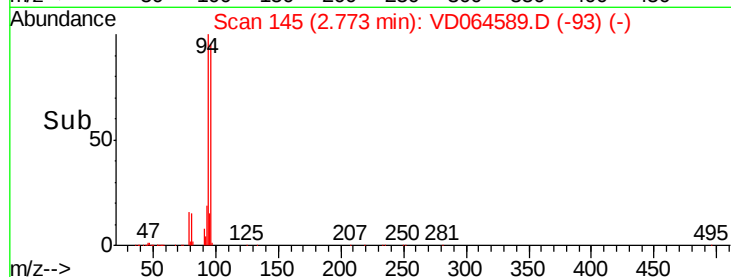
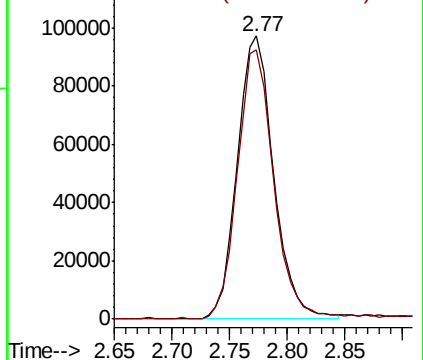
apatel

12/27/2019 2:06:55 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 47.347 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064589.D

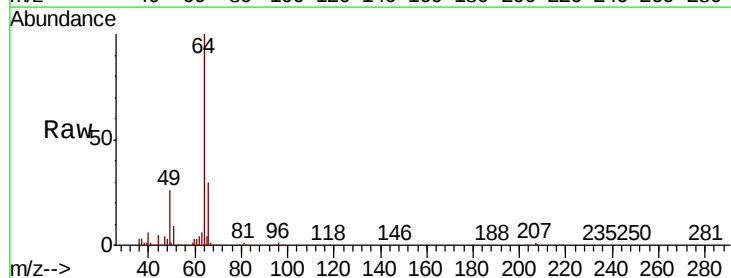
Acq: 26 Dec 2019 10:03

Tgt Ion: 64 Resp: 207076

Ion Ratio Lower Upper

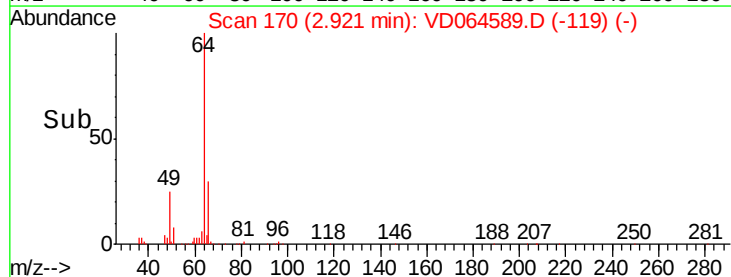
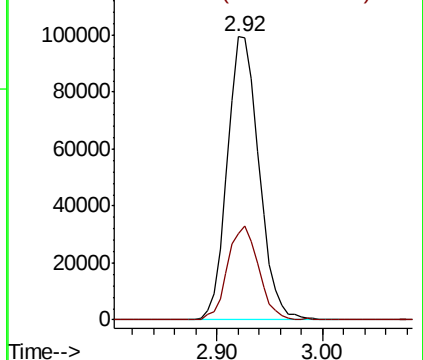
64 100

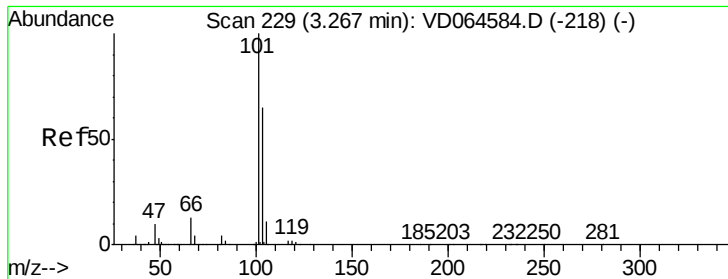
66 30.4 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

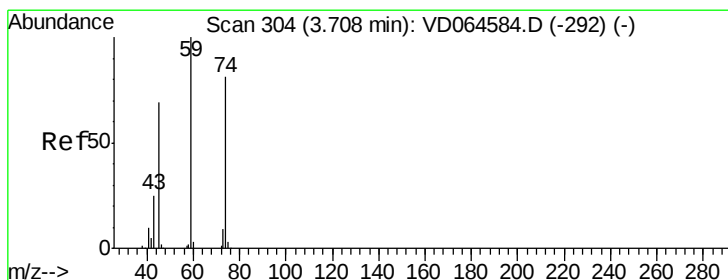
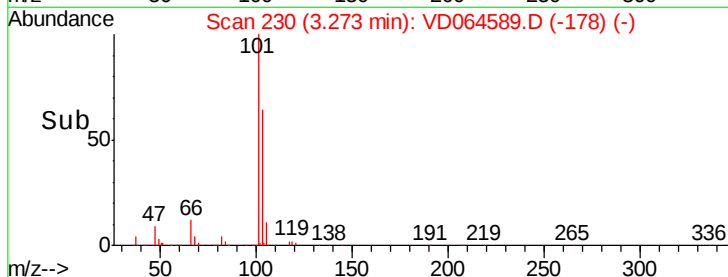
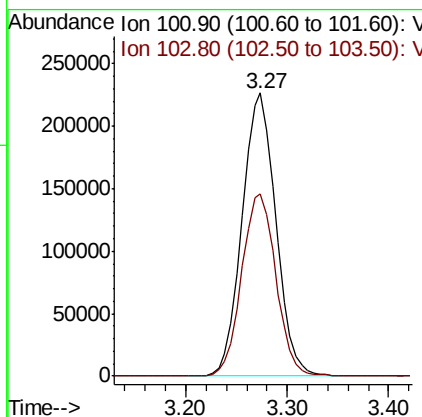
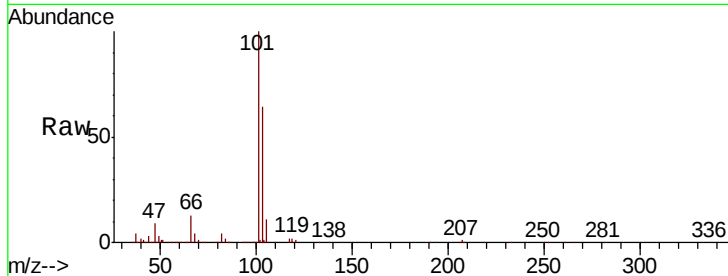
Trichlorofluoromethane
Concen: 47.814 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.2	78.4

Manual Integrations
APPROVED

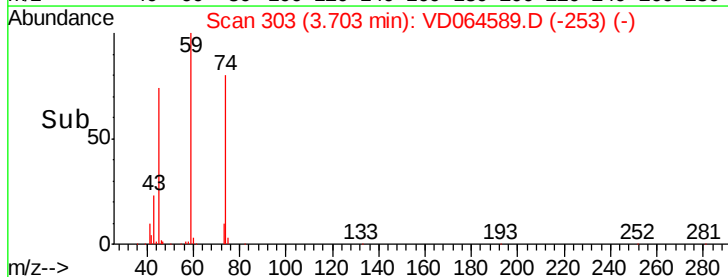
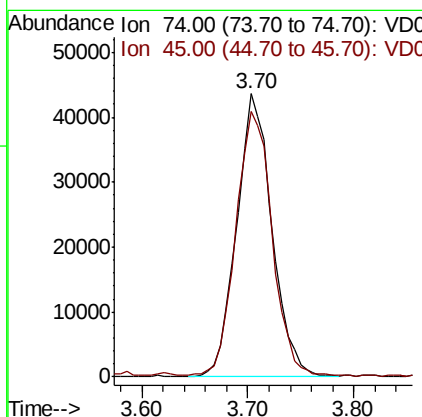
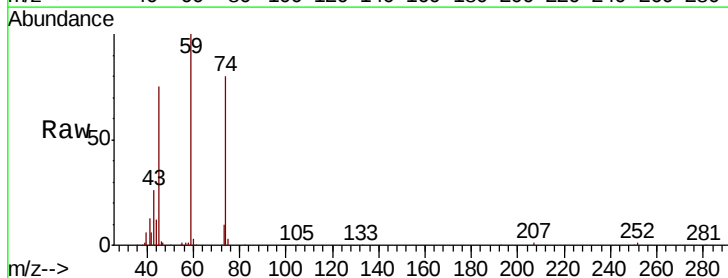
apatel
12/27/2019 2:06:55 PM

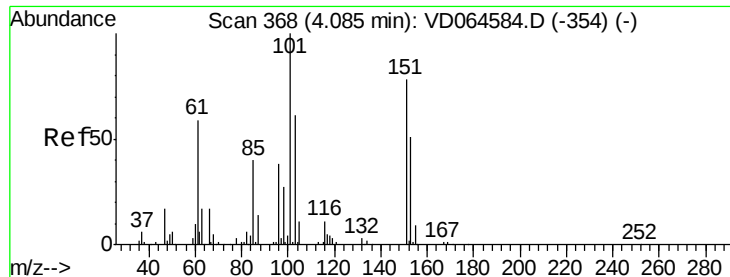


#8

Diethyl Ether
Concen: 46.366 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.9	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.059 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

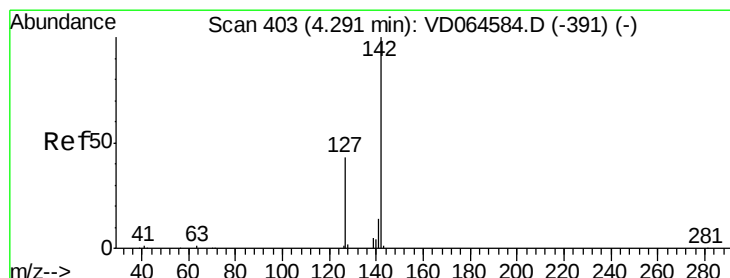
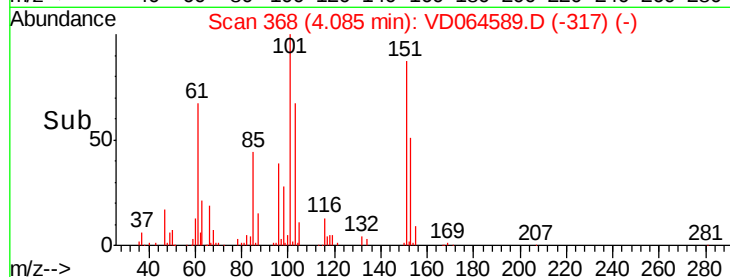
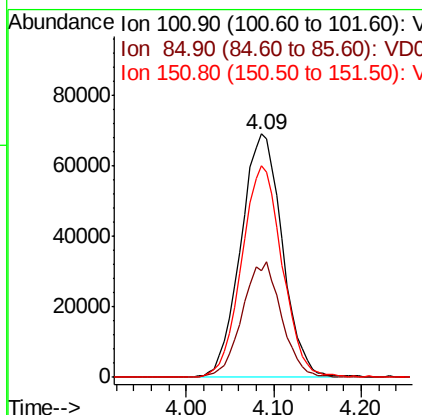
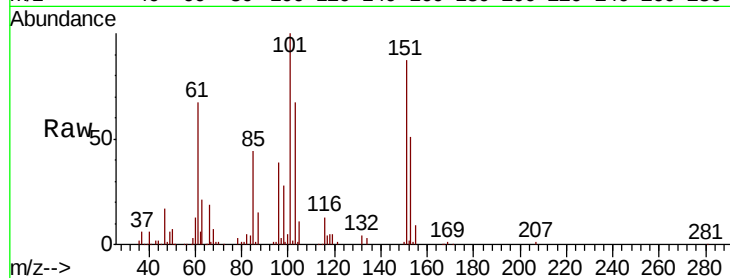
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	223293
Ion Ratio	Lower	Upper	
101	100		
85	44.7	35.2	52.8
151	84.9	66.2	99.4

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#10

Methyl Iodide

Concen: 52.084 ug/l

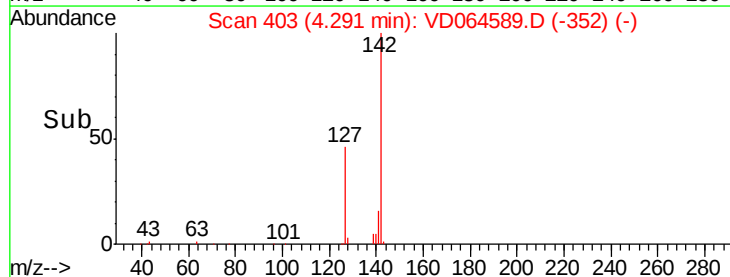
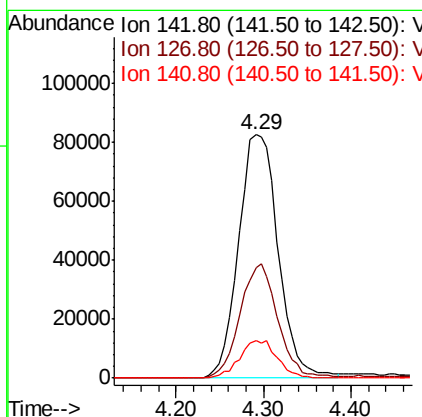
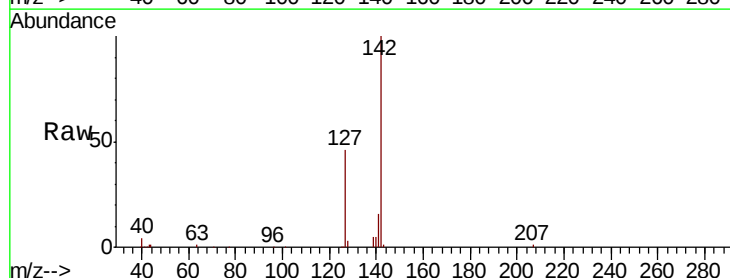
RT: 4.29 min Scan# 403

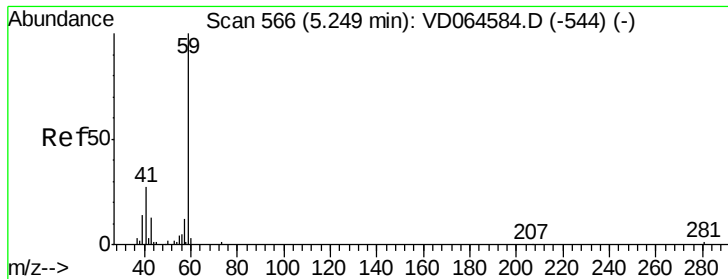
Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion:	142	Resp:	254644
Ion Ratio	Lower	Upper	
142	100		
127	44.7	36.2	54.4
141	14.7	11.8	17.8





#11

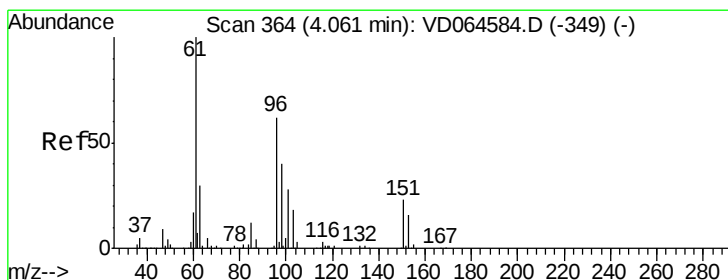
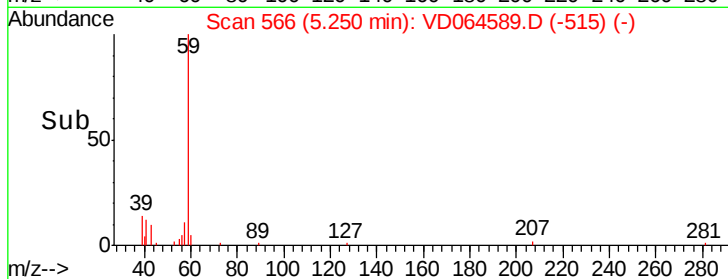
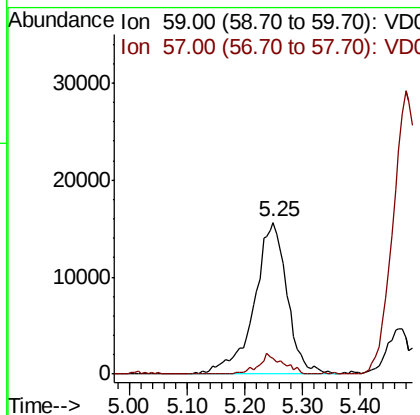
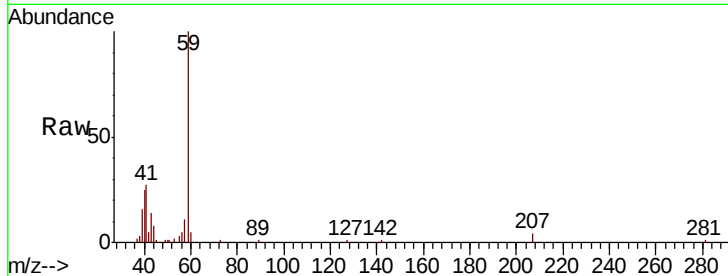
Tert butyl alcohol
 Concen: 249.847 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	9.3	13.9

Manual Integrations
 APPROVED

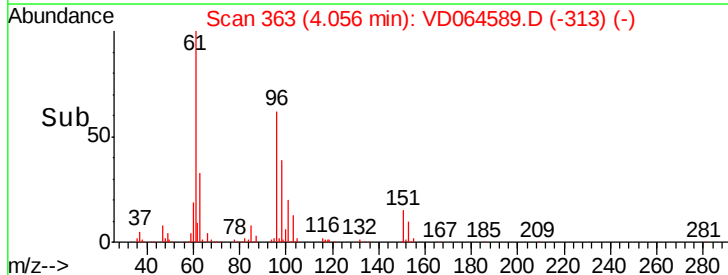
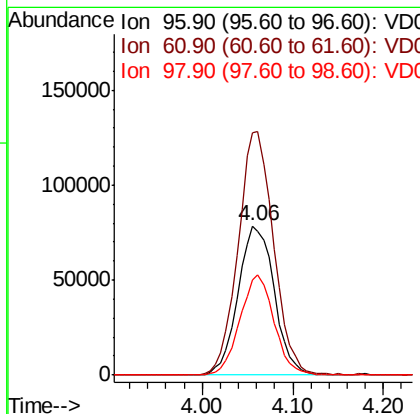
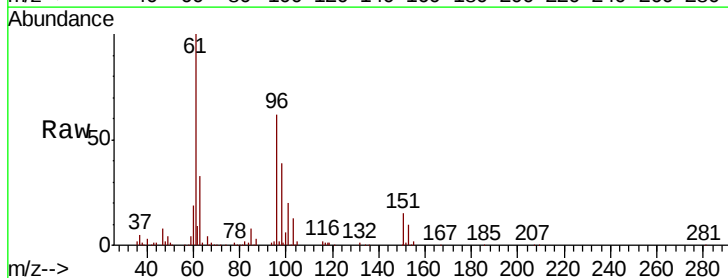
apatel
 12/27/2019 2:06:55 PM

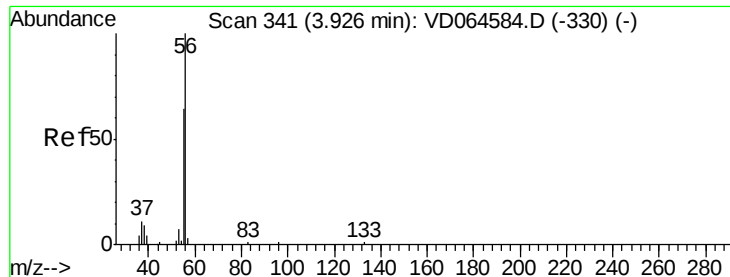


#12

1,1-Dichloroethene
 Concen: 50.225 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.4	129.4	194.0
98	63.4	51.4	77.0





#13

Acrolein

Concen: 240.992 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 83598

Ion Ratio Lower Upper

56 100

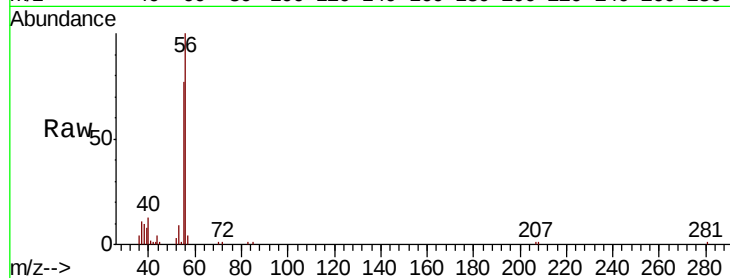
55 73.2 56.7 85.1

Manual Integrations

APPROVED

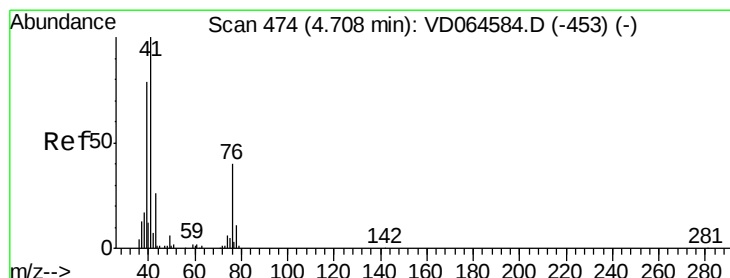
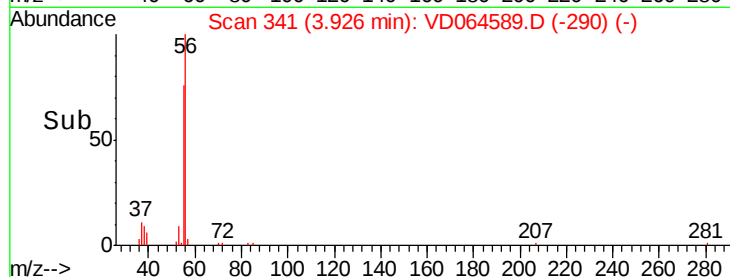
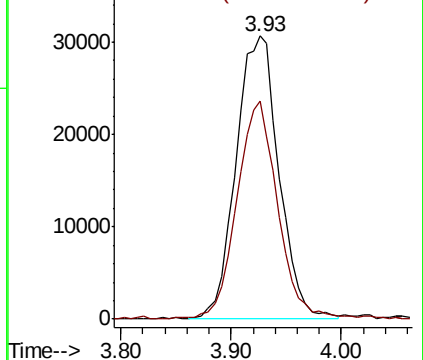
apatel

12/27/2019 2:06:55 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 50.908 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

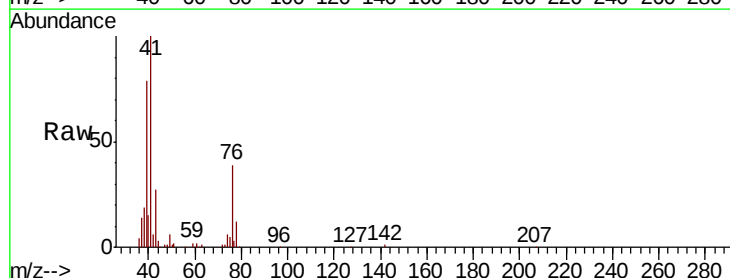
Tgt Ion: 41 Resp: 343941

Ion Ratio Lower Upper

41 100

39 76.7 62.3 93.5

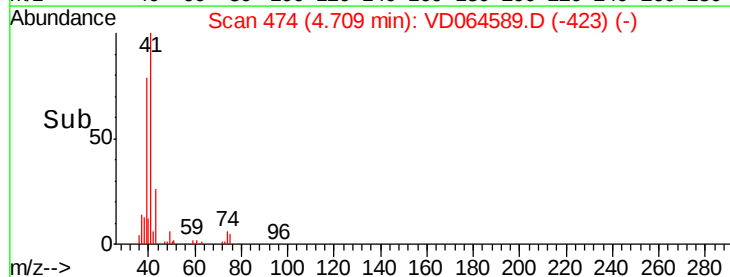
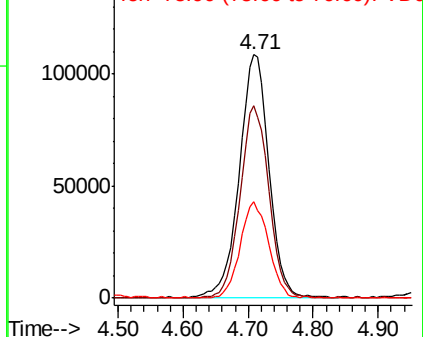
76 38.1 29.7 44.5

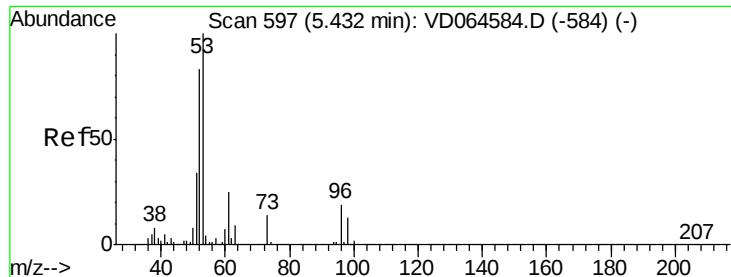


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 229.423 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

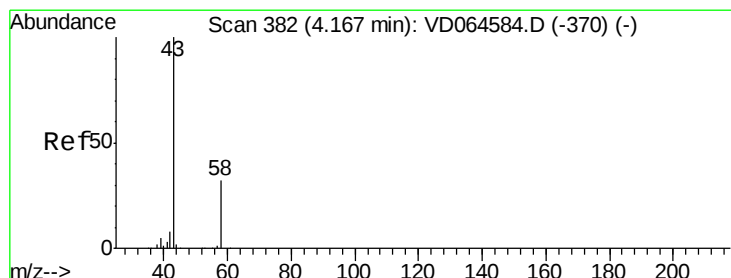
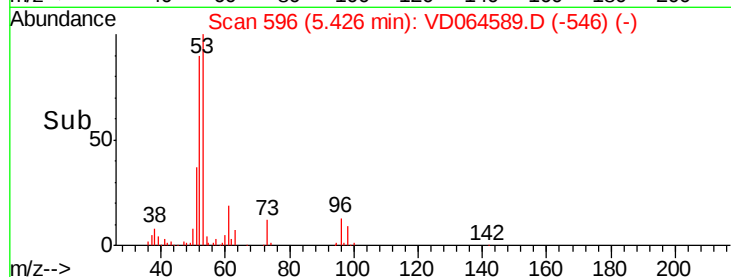
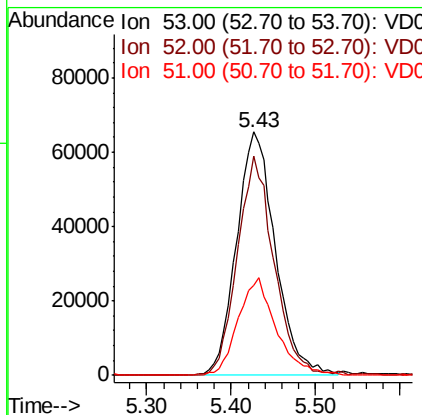
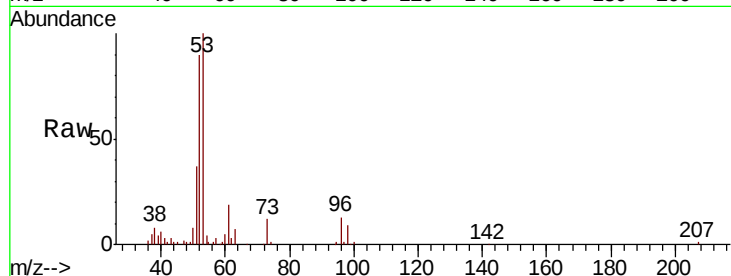
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	208559
Ion Ratio	Lower	Upper	
53	100		
52	84.5	66.2	99.2
51	39.4	30.1	45.1

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#16

Acetone

Concen: 296.532 ug/l

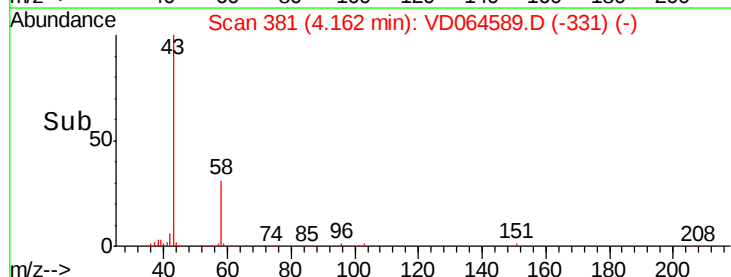
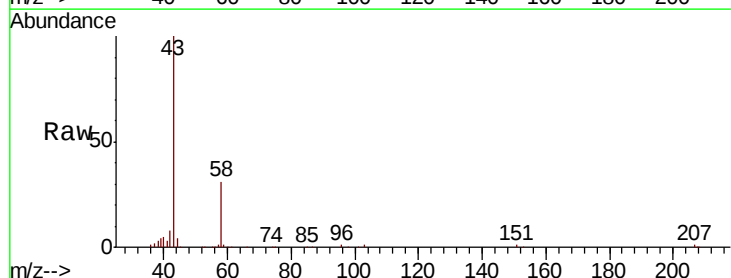
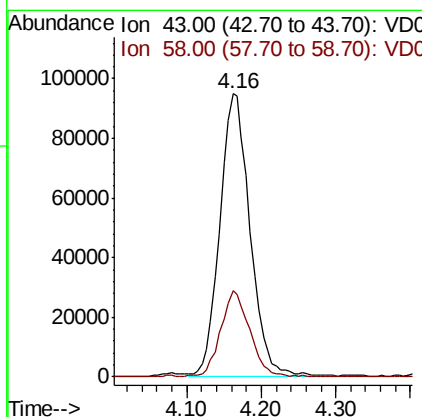
RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion:	43	Resp:	265668
Ion Ratio	Lower	Upper	
43	100		
58	30.8	25.8	38.6





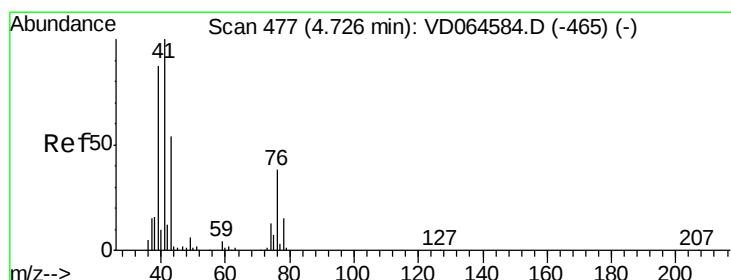
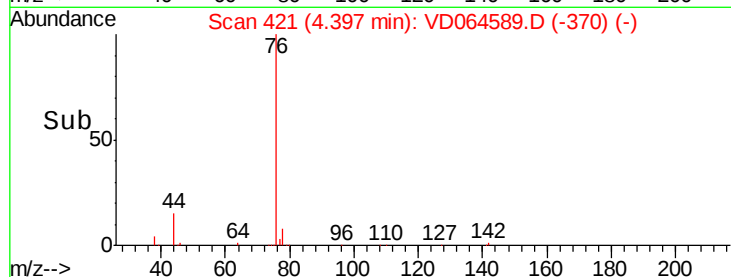
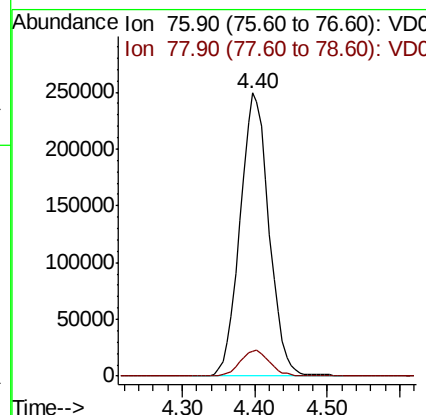
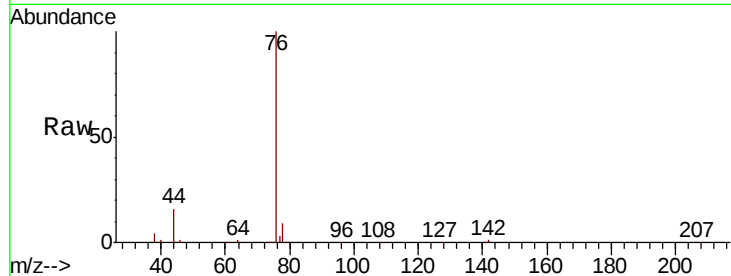
#17
Carbon Disulfide
Concen: 49.336 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

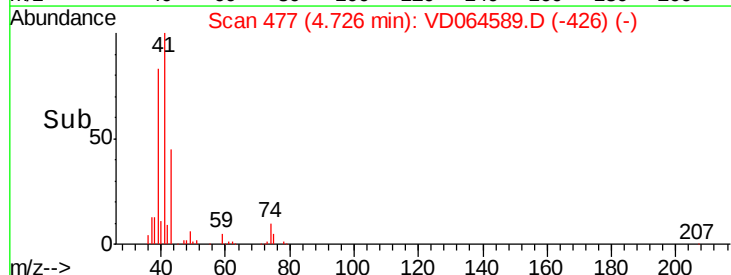
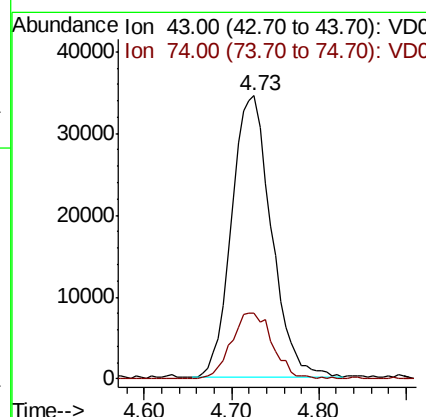
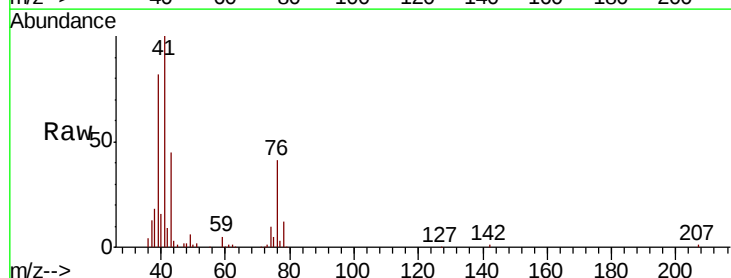
Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#18
Methyl Acetate
Concen: 43.525 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.2	28.8





#19

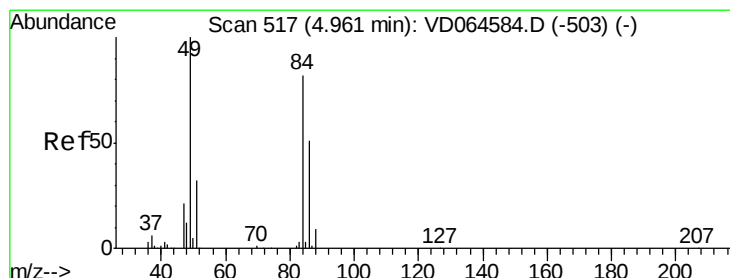
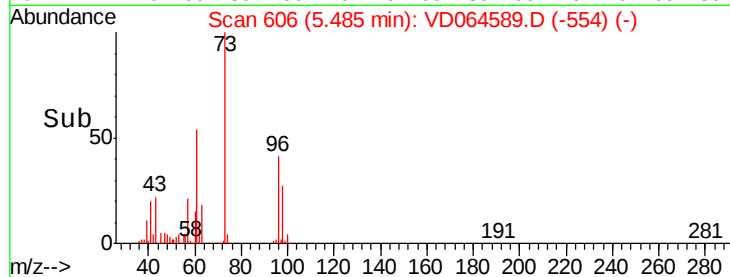
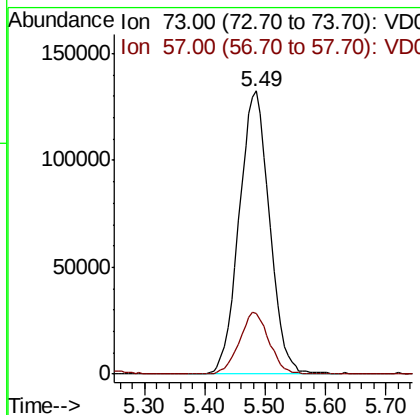
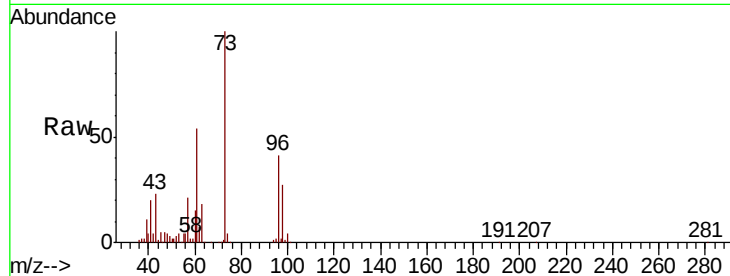
Methyl tert-butyl Ether
 Concen: 48.060 ug/l
 RT: 5.49 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.3	18.6	27.8

Manual Integrations
 APPROVED

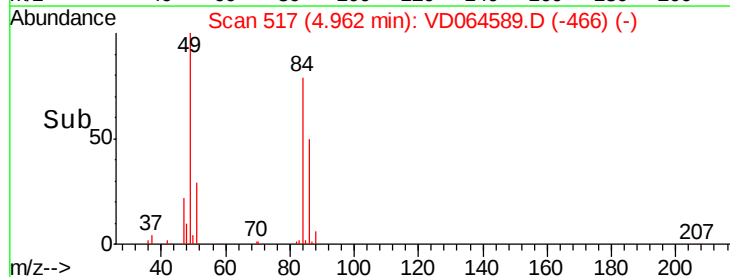
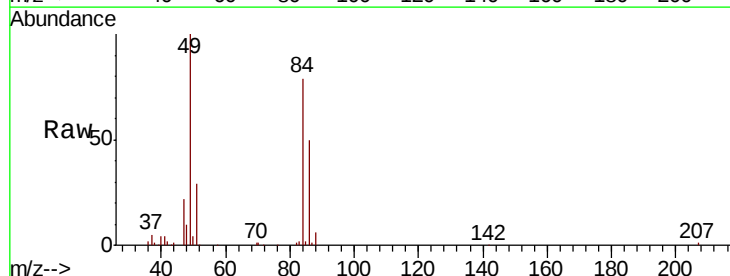
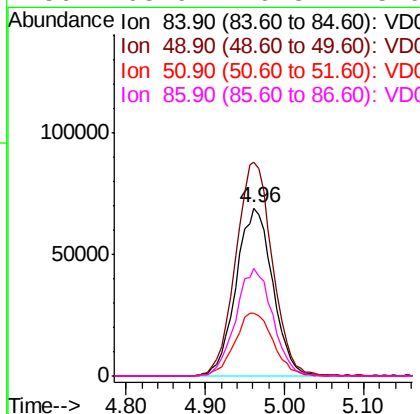
apatel
 12/27/2019 2:06:55 PM

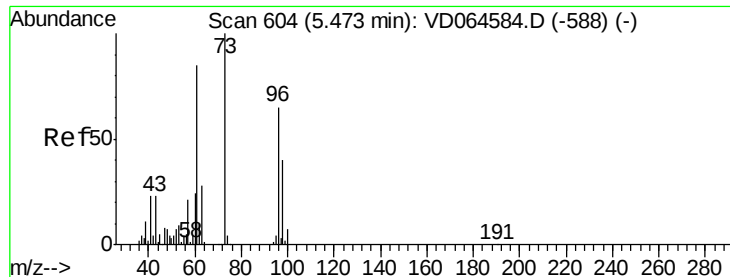


#20

Methylene Chloride
 Concen: 49.720 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.2	97.2	145.8
51	37.2	31.4	47.0
86	63.9	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 50.033 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 246909

Ion Ratio Lower Upper

96 100

61 133.4 104.7 157.1

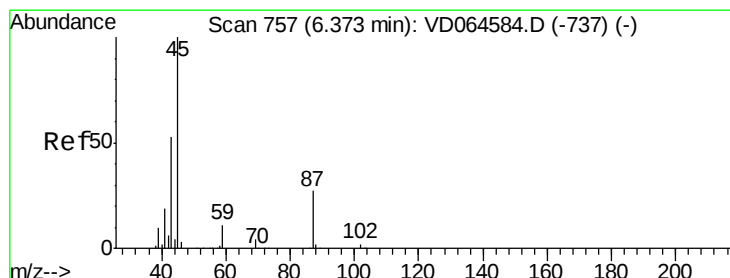
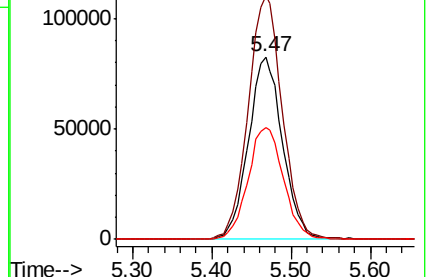
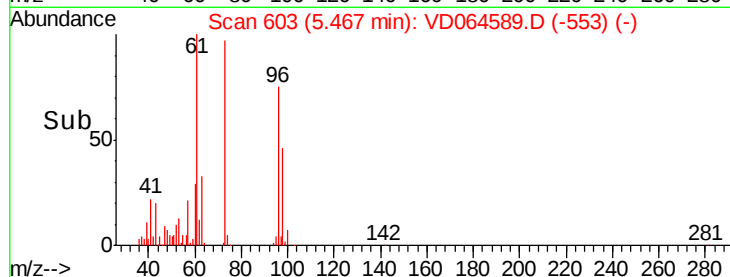
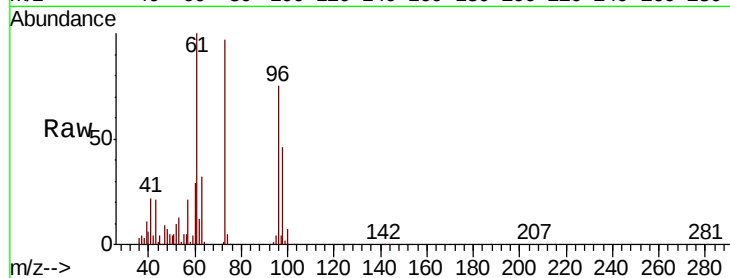
98 60.9 49.4 74.2

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#22

Diisopropyl ether

Concen: 49.197 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion: 45 Resp: 662967

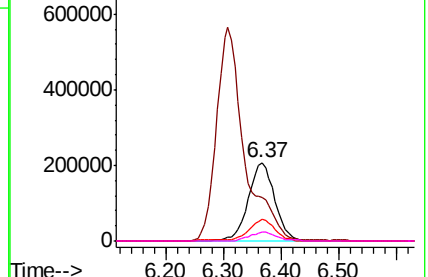
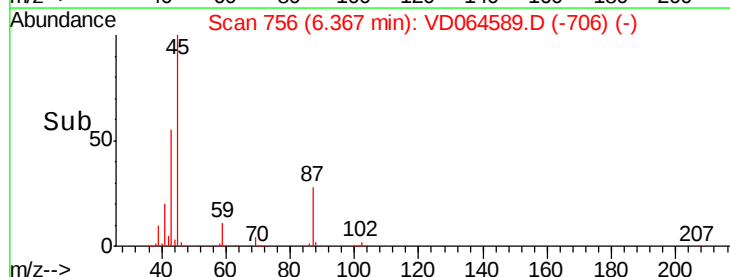
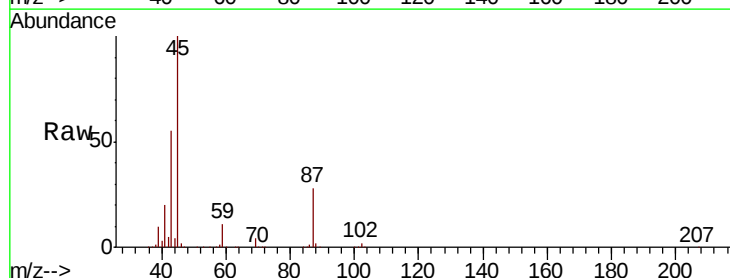
Ion Ratio Lower Upper

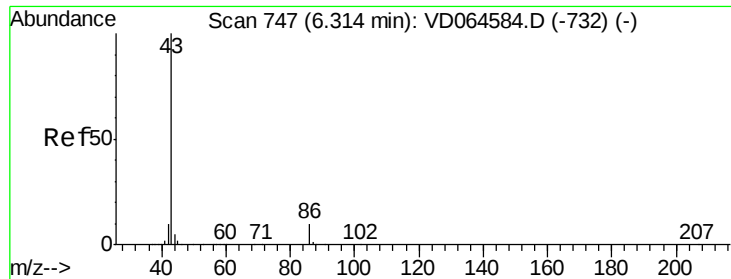
45 100

43 54.9 43.2 64.8

87 28.3 21.9 32.9

59 10.6 9.0 13.4





#23

Vinyl Acetate

Concen: 248.705 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1901166

Ion Ratio Lower Upper

43 100

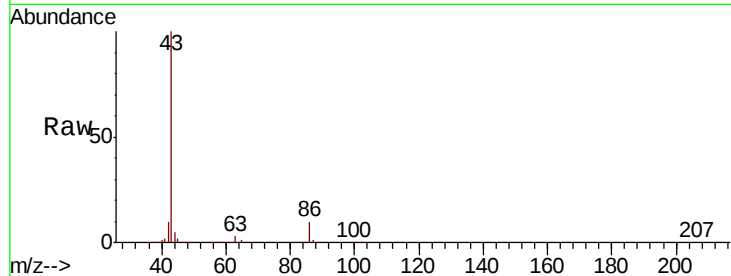
86 10.4 8.3 12.5

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

600000

500000

400000

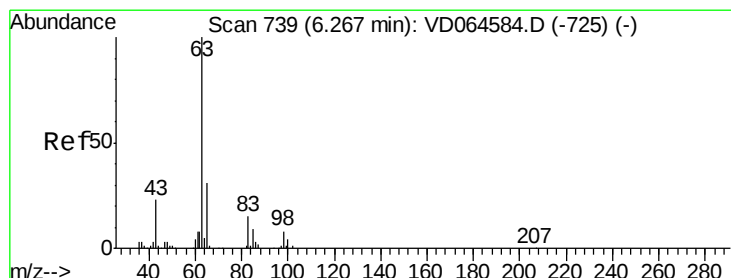
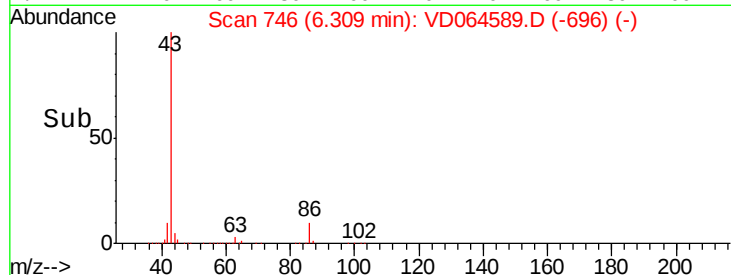
300000

200000

100000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 50.183 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

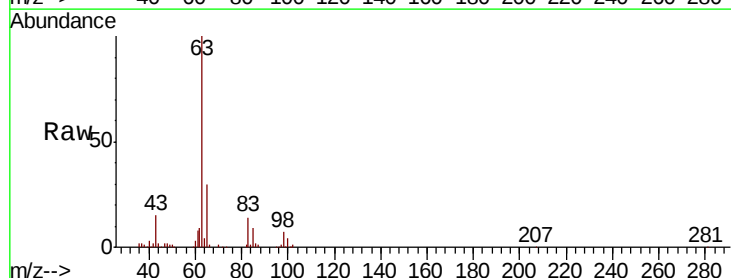
Tgt Ion: 63 Resp: 405980

Ion Ratio Lower Upper

63 100

98 6.9 4.1 12.3

100 4.2 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

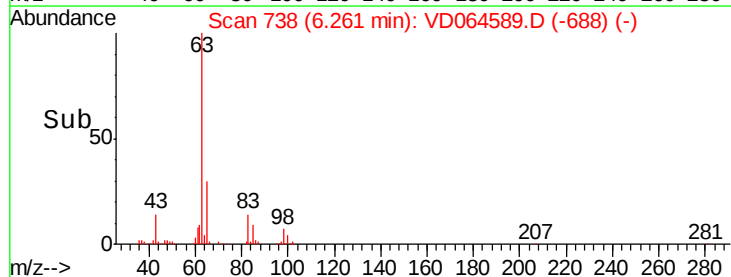
150000

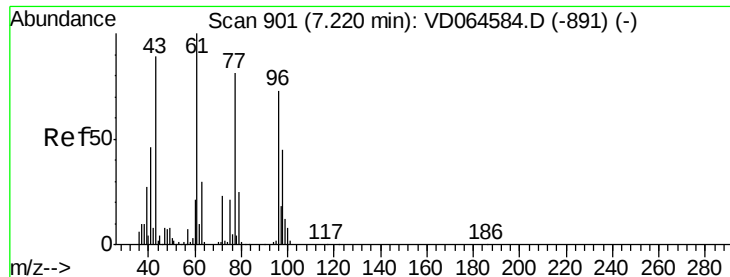
100000

50000

0

Time--> 6.10 6.20 6.30 6.40 6.50





#25

2-Butanone

Concen: 254.268 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 303553

Ion Ratio Lower Upper

43 100

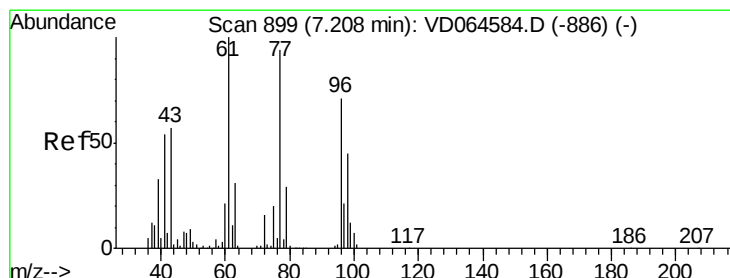
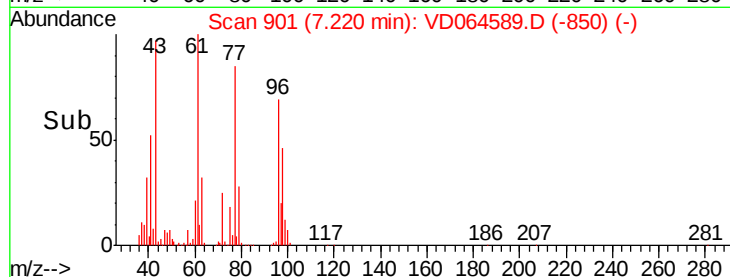
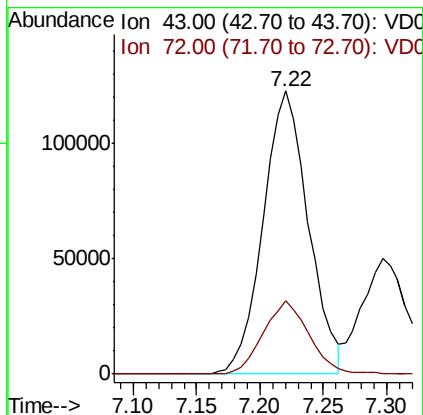
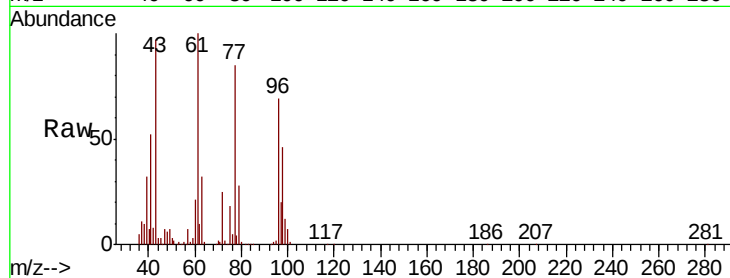
72 26.2 20.7 31.1

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#26

2,2-Dichloropropane

Concen: 50.738 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064589.D

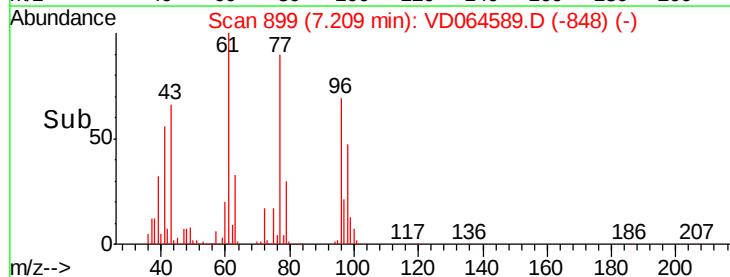
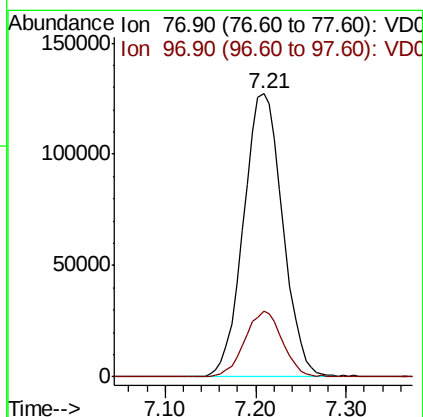
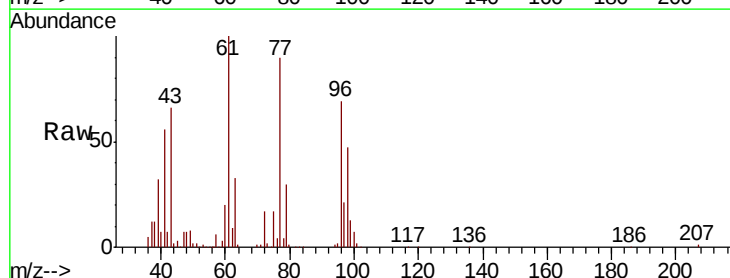
Acq: 26 Dec 2019 10:03

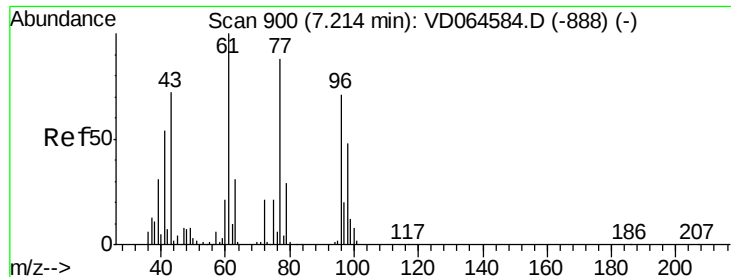
Tgt Ion: 77 Resp: 381630

Ion Ratio Lower Upper

77 100

97 22.3 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 49.341 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

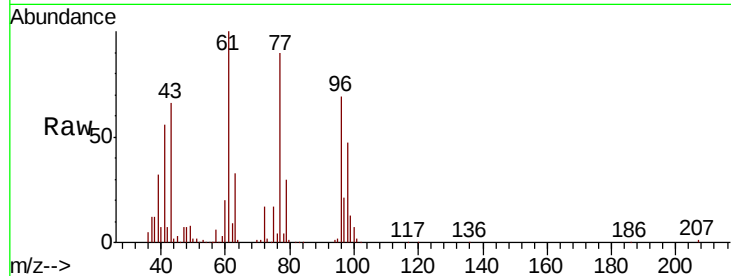
ClientSampleId :

VSTDCCC050

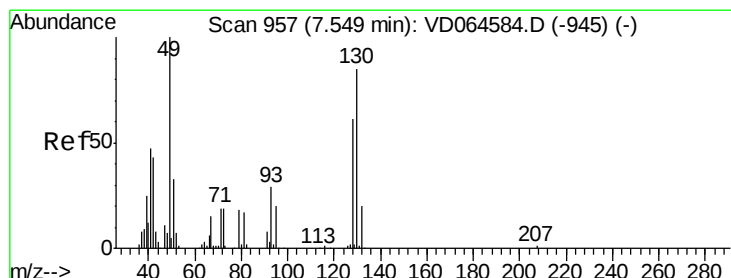
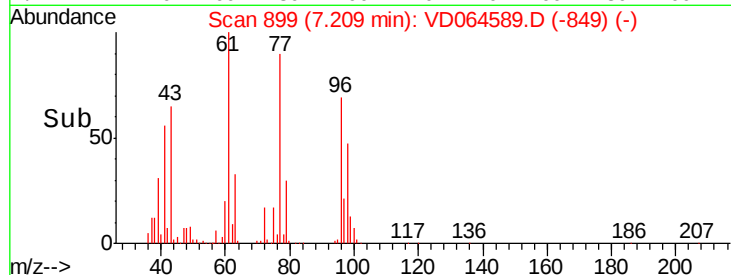
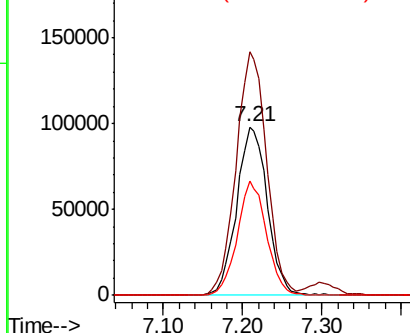
Tot Ion:	96	Resp:	262790
Ion Ratio	Lower	Upper	
96	100		
61	143.9	0.0	282.6
98	64.6	0.0	130.8

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#28

Bromochloromethane

Concen: 49.496 ug/l

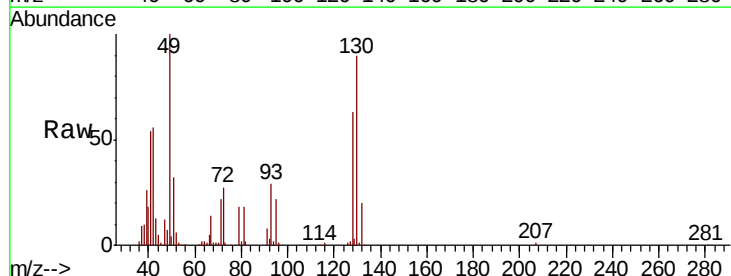
RT: 7.55 min Scan# 957

Delta R.T. 0.00 min

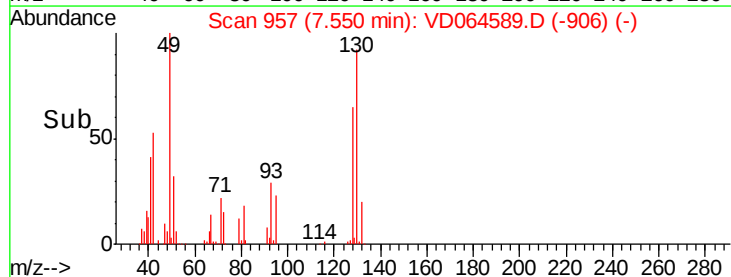
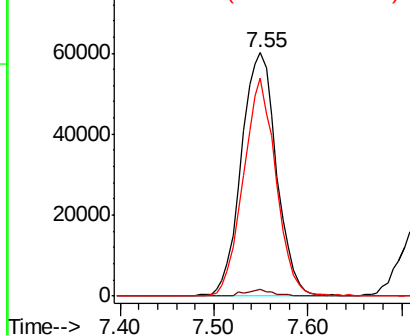
Lab File: VD064589.D

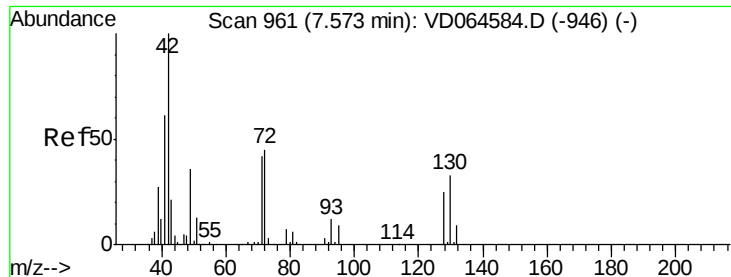
Acq: 26 Dec 2019 10:03

Tgt Ion:	49	Resp:	155655
Ion Ratio	Lower	Upper	
49	100		
129	2.2	0.0	4.8
130	83.2	65.0	97.6



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





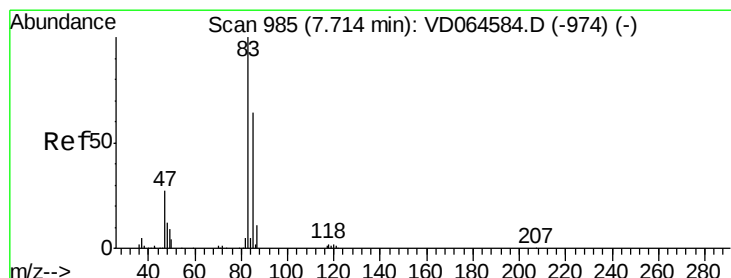
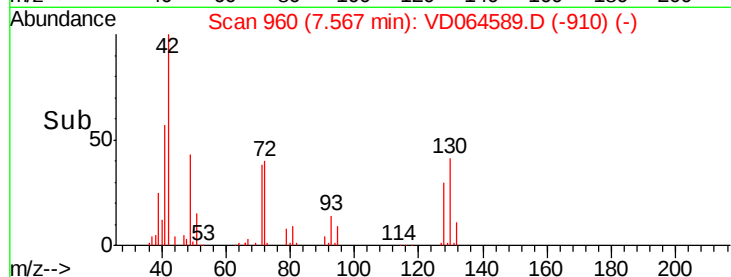
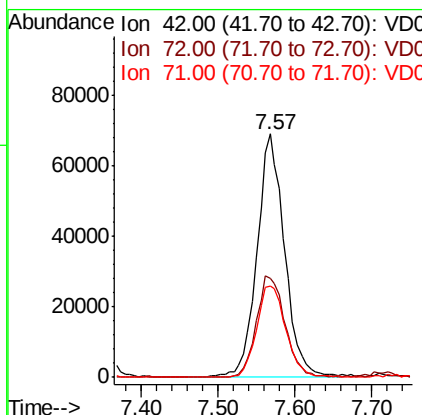
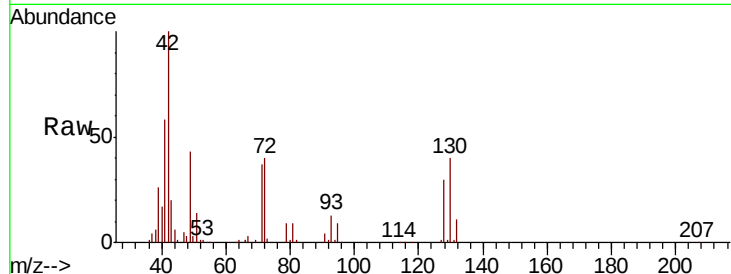
#29
Tetrahydrofuran
Concen: 232.202 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	35.0	52.4
71	40.0	32.9	49.3

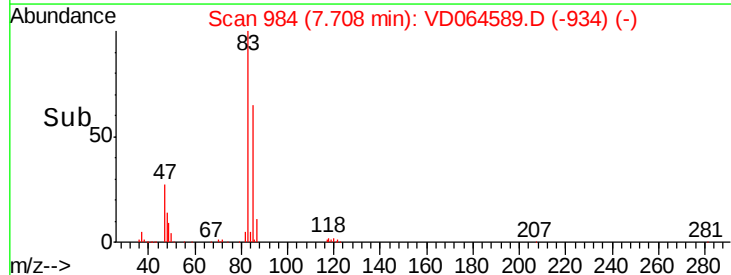
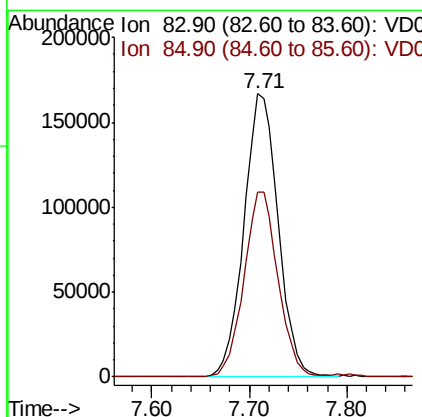
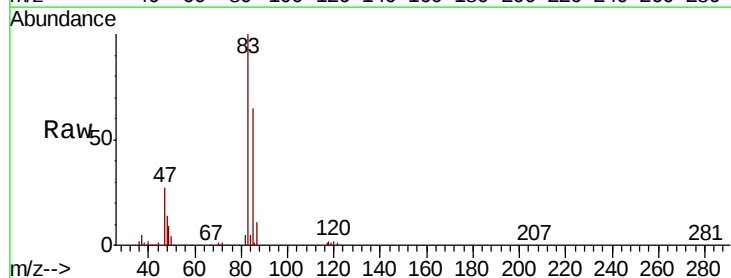
Manual Integrations
APPROVED

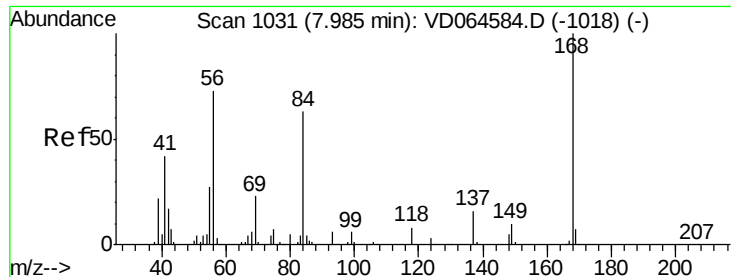
apatel
12/27/2019 2:06:55 PM



#30
Chloroform
Concen: 48.327 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7





#31

Cyclohexane

Concen: 48.199 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

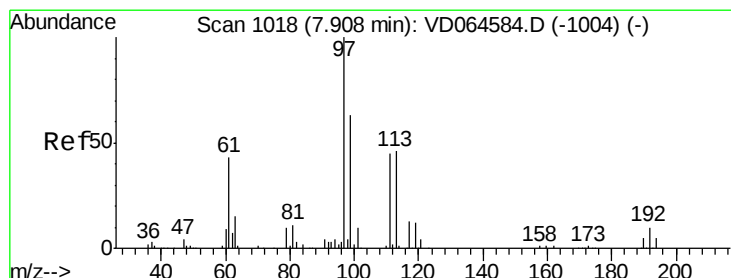
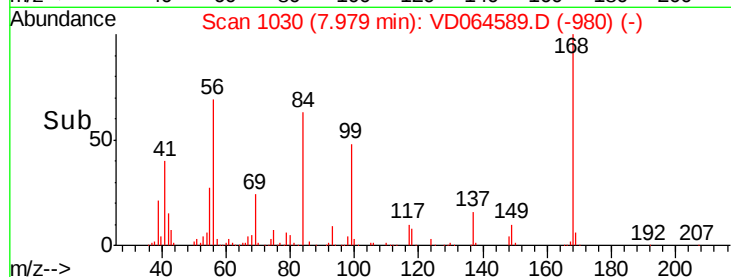
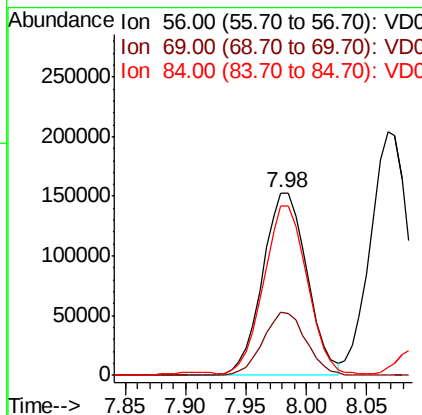
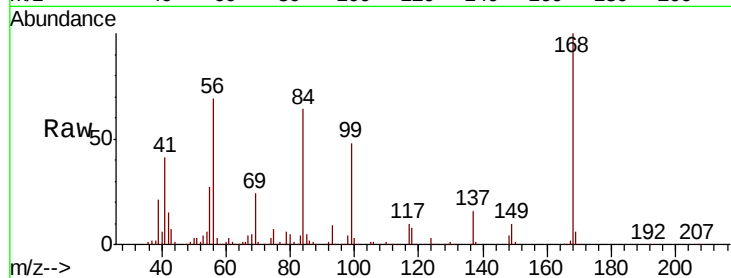
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	390318
Ion Ratio	Lower	Upper	
56	100		
69	34.4	24.7	37.1
84	91.6	69.4	104.2

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#32

1,1,1-Trichloroethane

Concen: 50.211 ug/l

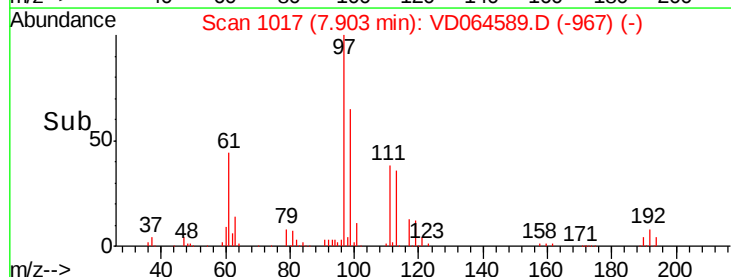
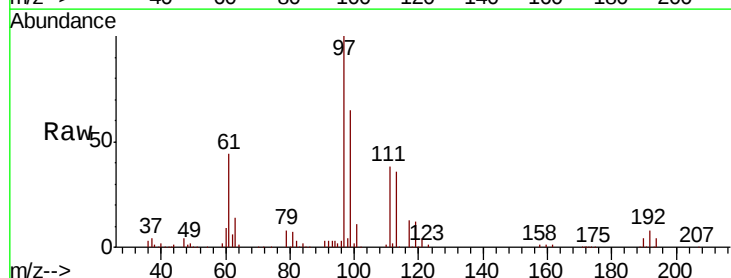
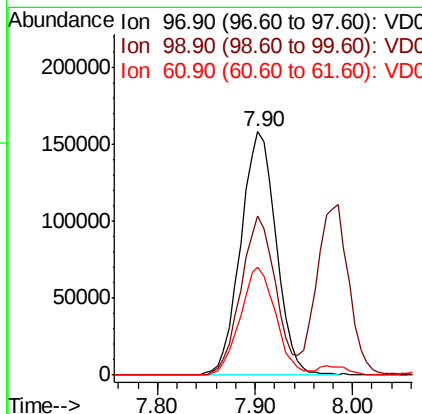
RT: 7.90 min Scan# 1017

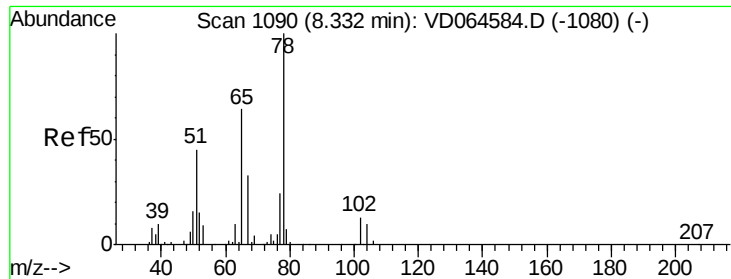
Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion:	97	Resp:	400293
Ion Ratio	Lower	Upper	
97	100		
99	64.0	51.0	76.6
61	44.6	35.4	53.0





#33

1,2-Dichloroethane-d4

Concen: 46.661 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 202657

Ion Ratio Lower Upper

65 100

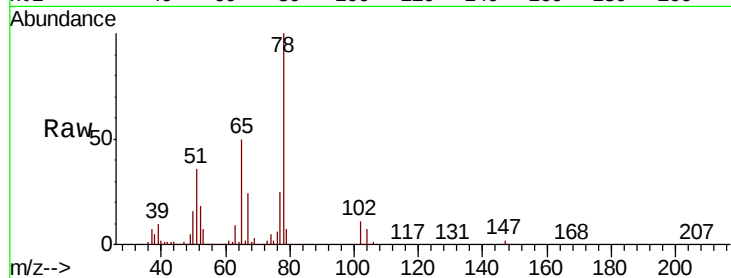
67 52.3 0.0 106.2

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

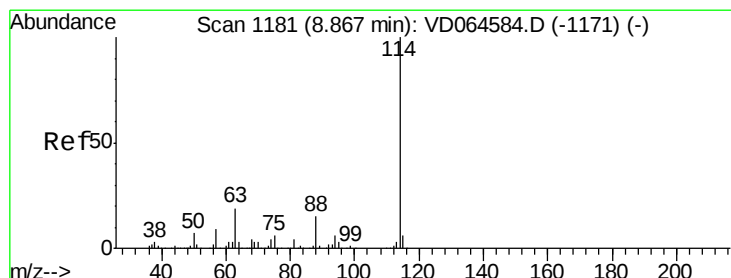
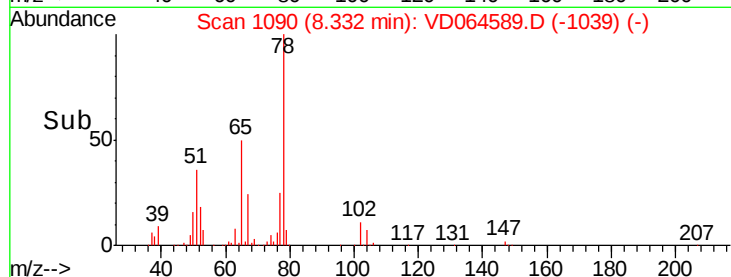
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

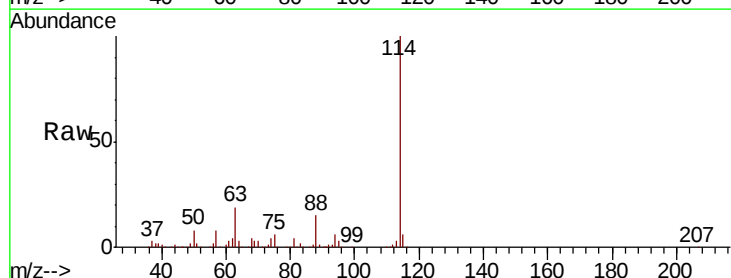
Tgt Ion: 114 Resp: 696963

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.0

88 14.7 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

400000

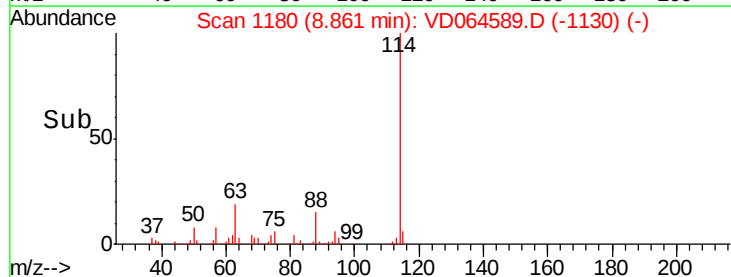
300000

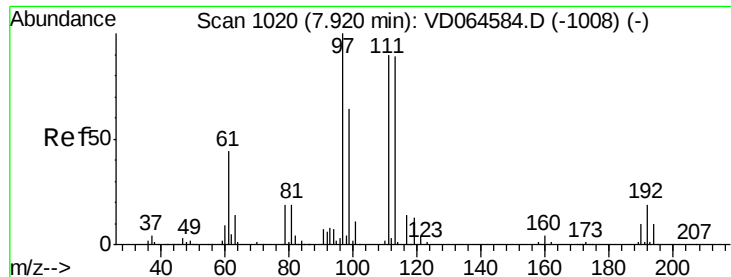
200000

100000

0

Time-->





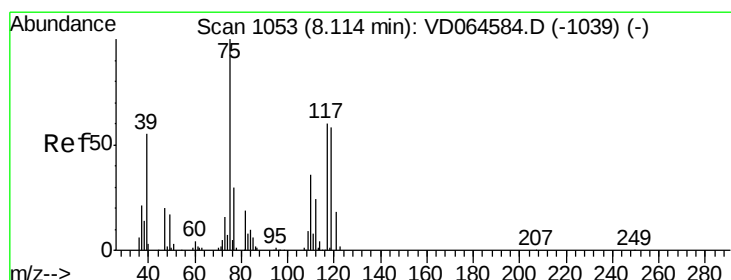
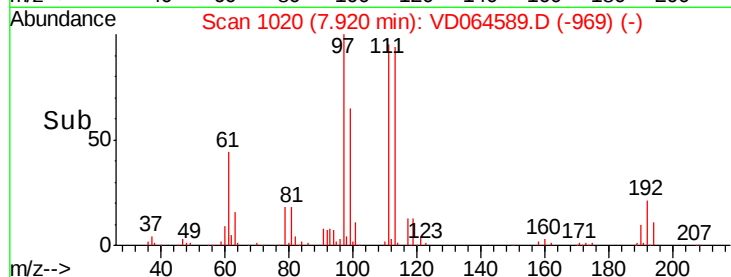
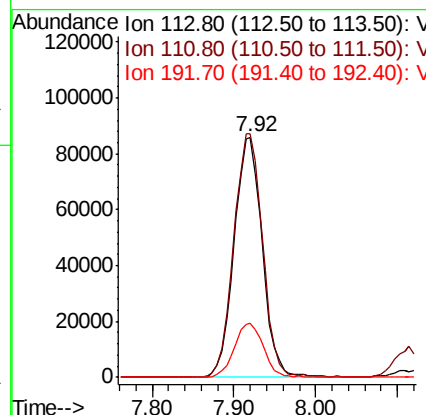
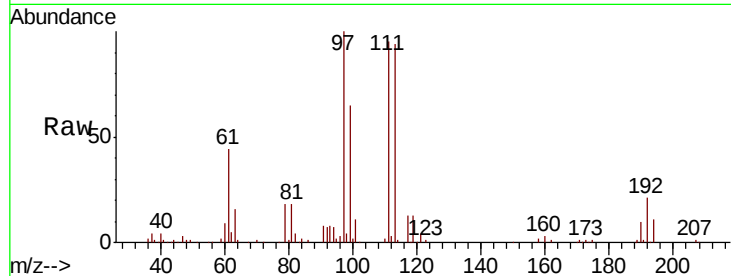
#35
 Dibromofluoromethane
 Concen: 48.077 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	205577		
111	103.8	80.6	121.0	
192	23.1	17.9	26.9	

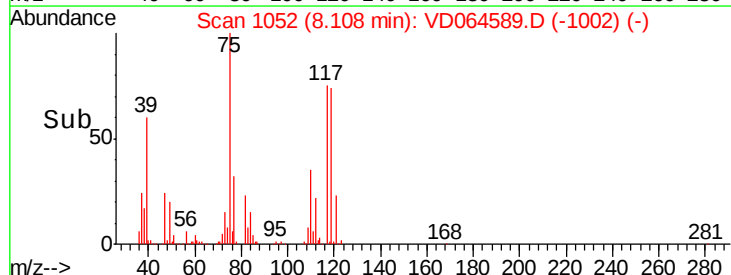
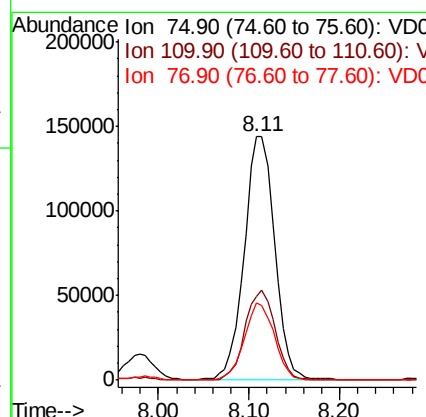
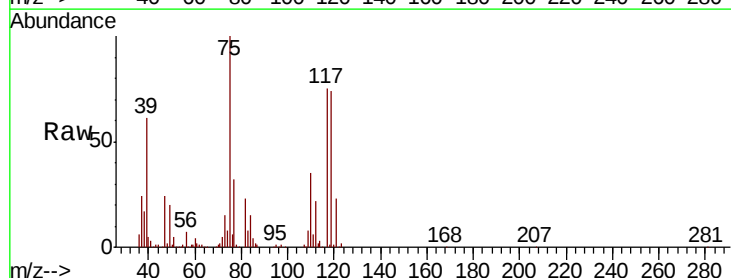
Manual Integrations
 APPROVED

apatel
 12/27/2019 2:06:55 PM



#36
 1,1-Dichloropropene
 Concen: 50.038 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	335670		
110	36.6	18.1	54.1	
77	31.7	24.2	36.4	





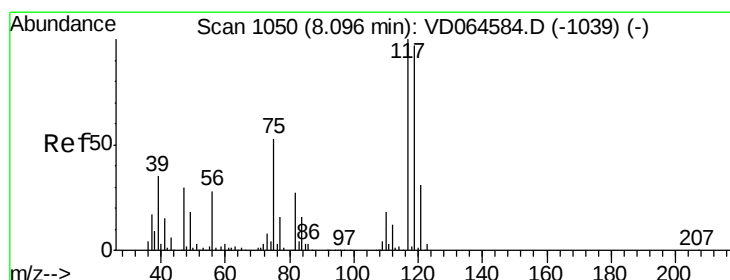
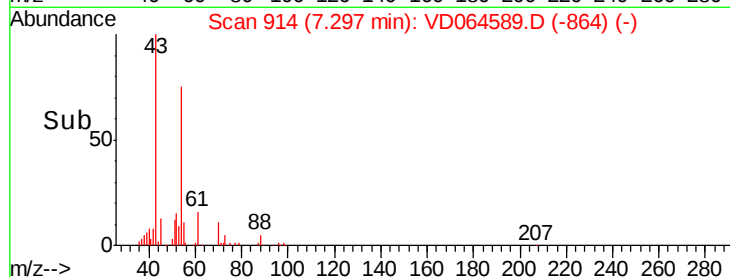
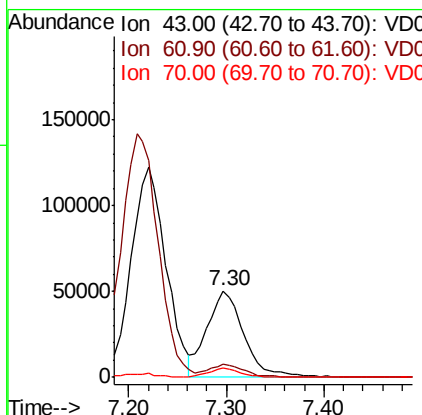
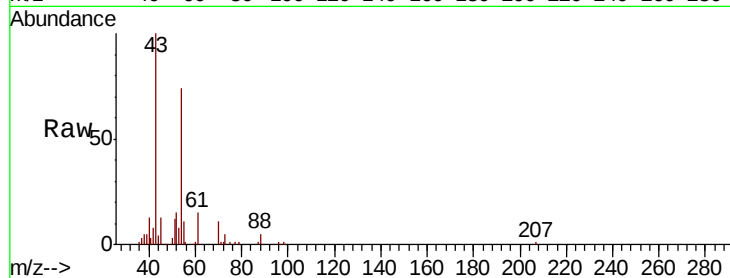
#37
Ethyl Acetate
Concen: 49.007 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.3	15.5
70	9.6	7.6	11.4

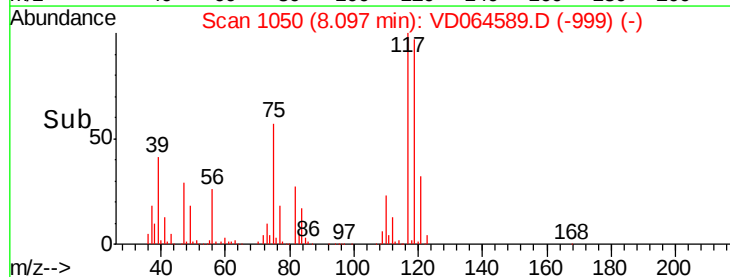
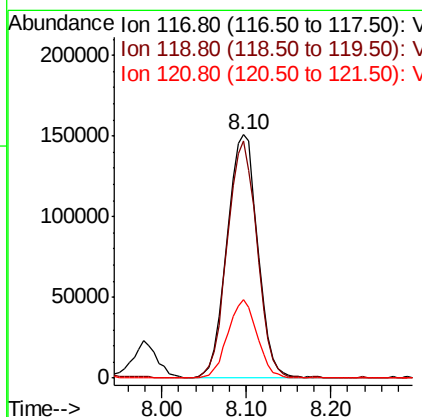
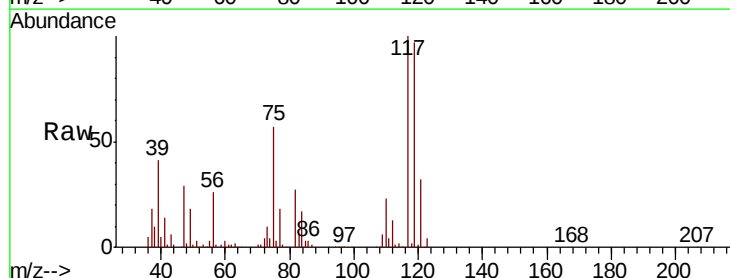
Manual Integrations
APPROVED

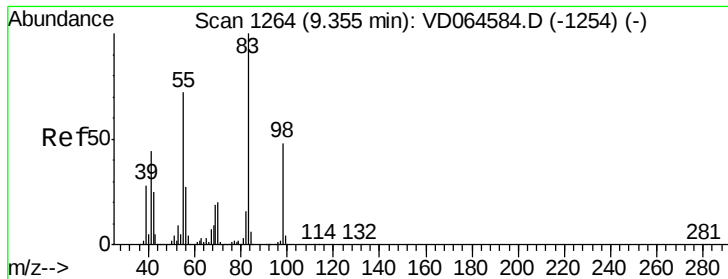
apatel
12/27/2019 2:06:55 PM



#38
Carbon Tetrachloride
Concen: 52.446 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	77.3	115.9
121	32.1	25.0	37.6





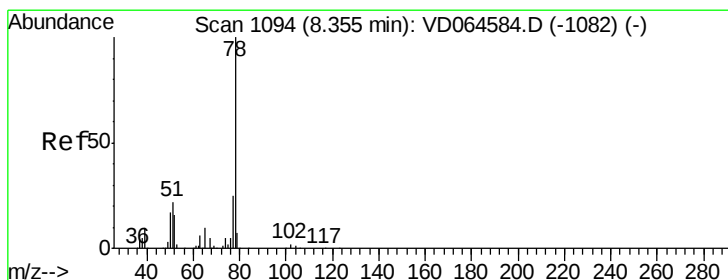
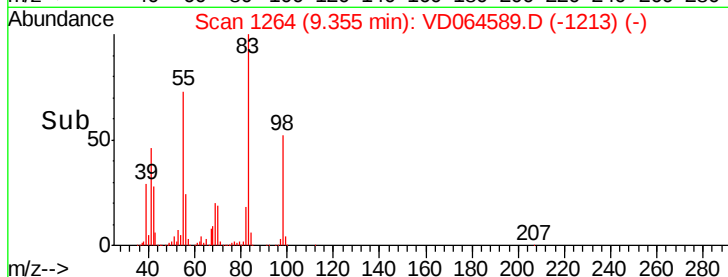
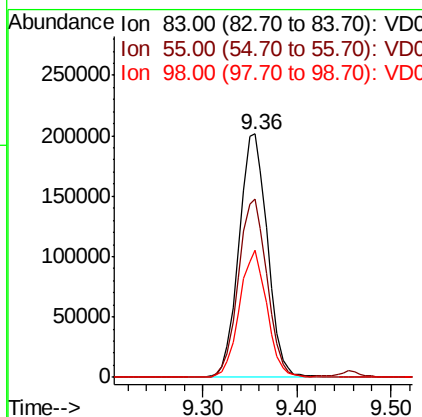
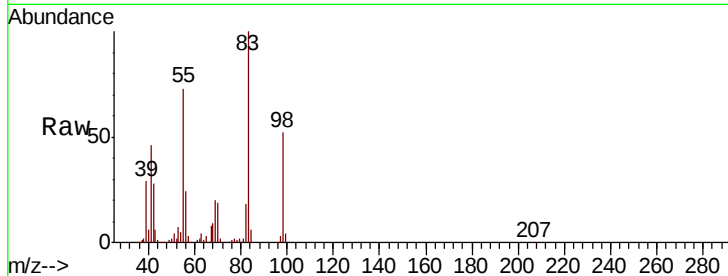
#39
Methvlcvclohexane
Concen: 52.065 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.9	57.8	86.6
98	52.2	38.7	58.1

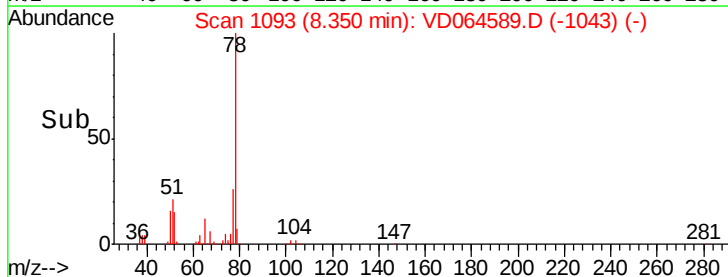
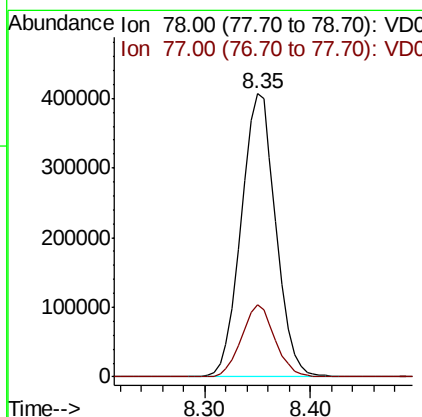
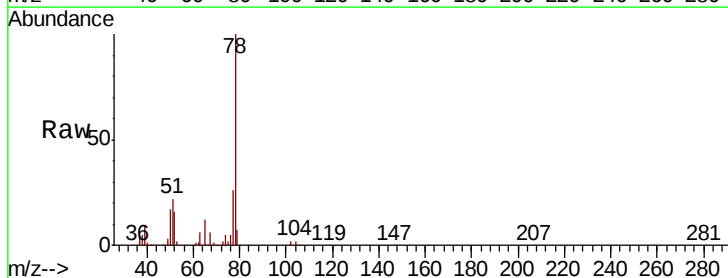
Manual Integrations
APPROVED

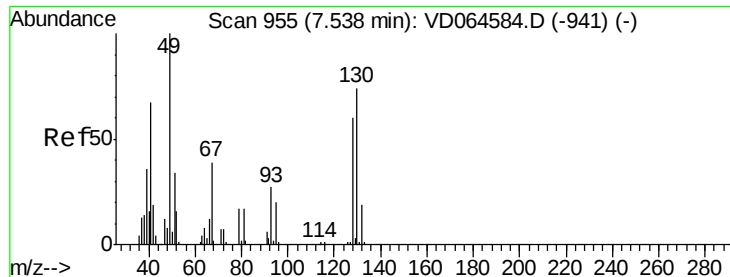
apatel
12/27/2019 2:06:55 PM



#40
Benzene
Concen: 50.446 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.9	29.9





#41

Methacrylonitrile

Concen: 49.004 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 74929

Ion Ratio Lower Upper

41 100

39 64.1 46.7 70.1

67 70.7 52.5 78.7

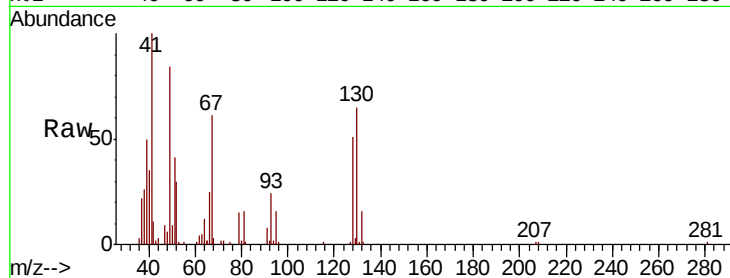
52 31.1 24.1 36.1

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM

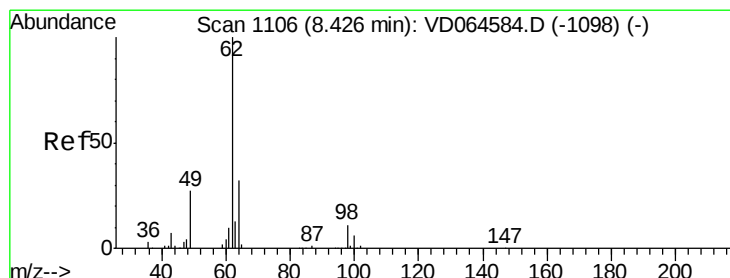
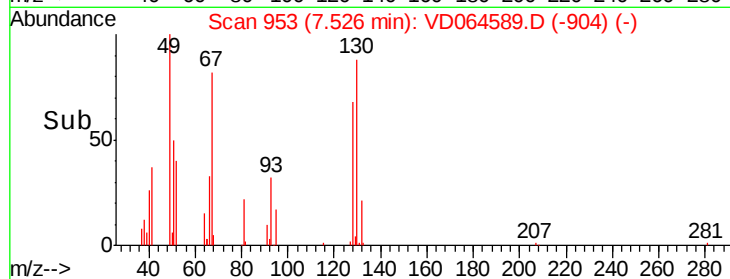
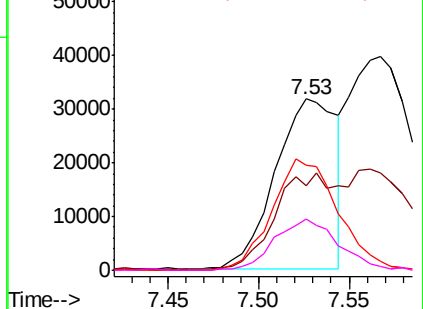


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 49.244 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD064589.D

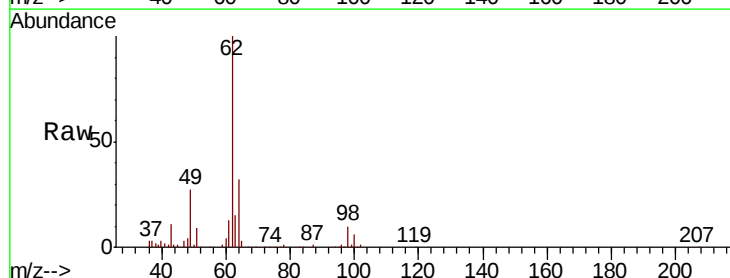
Acq: 26 Dec 2019 10:03

Tgt Ion: 62 Resp: 260597

Ion Ratio Lower Upper

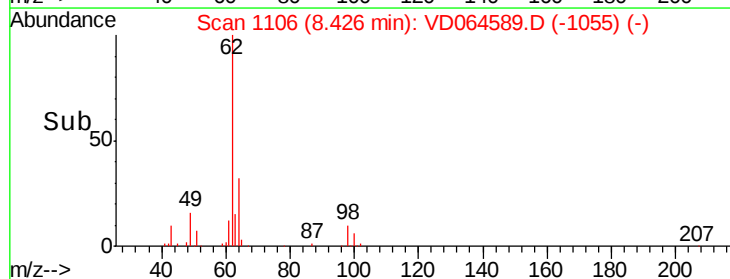
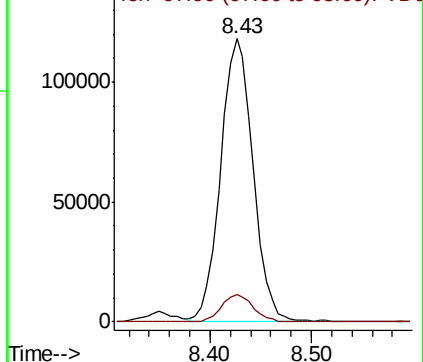
62 100

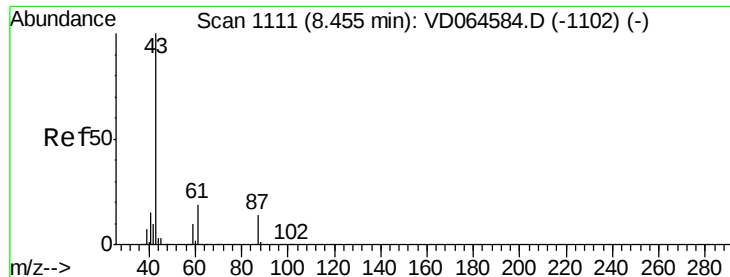
98 9.6 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 47.469 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

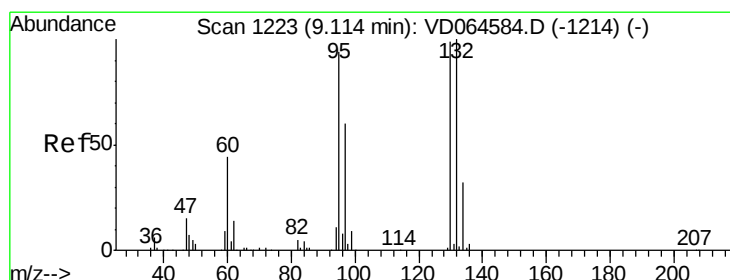
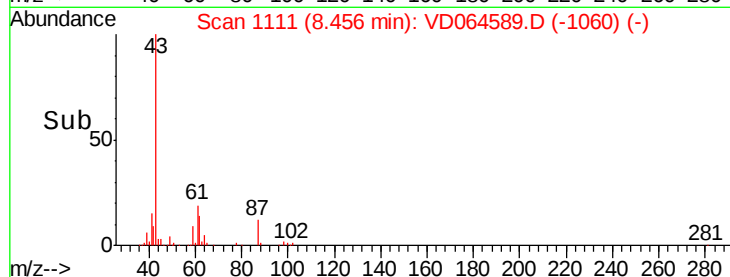
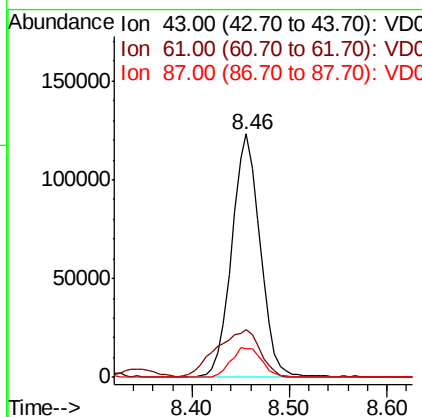
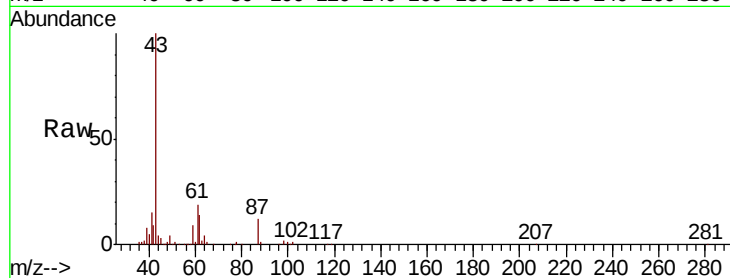
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	248997
Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.7	35.5
87	13.3	10.5	15.7

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#44

Trichloroethene

Concen: 50.246 ug/l

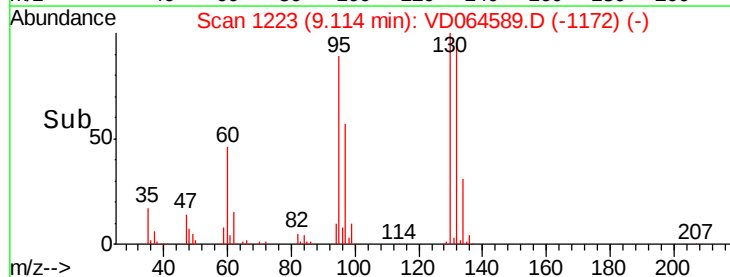
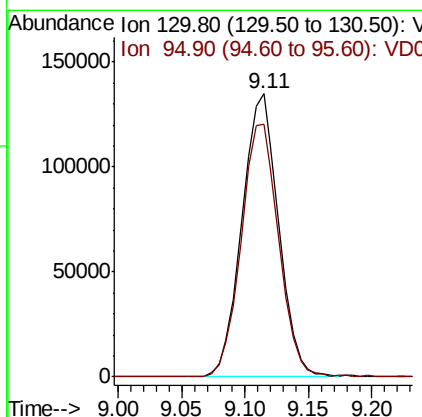
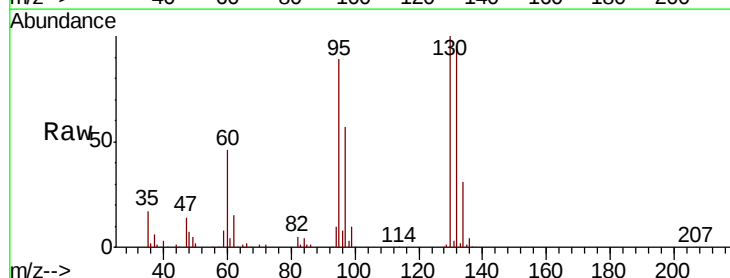
RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion:	130	Resp:	270309
Ion	Ratio	Lower	Upper
130	100		
95	89.4	0.0	190.2





#45

1,2-Dichloropropane

Concen: 50.307 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 219964

Ion Ratio Lower Upper

63 100

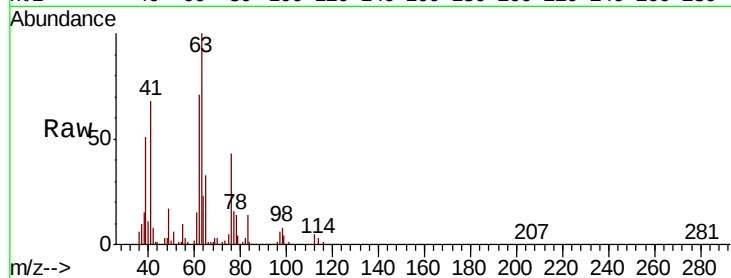
65 32.6 25.2 37.8

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

120000

100000

80000

60000

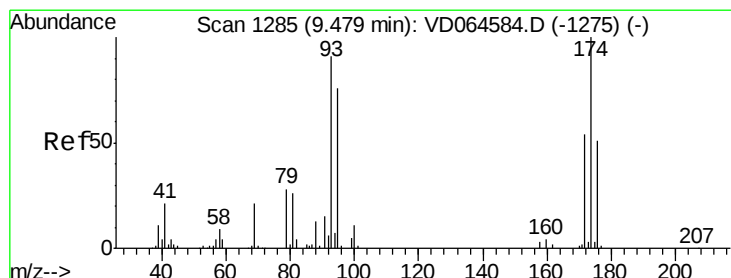
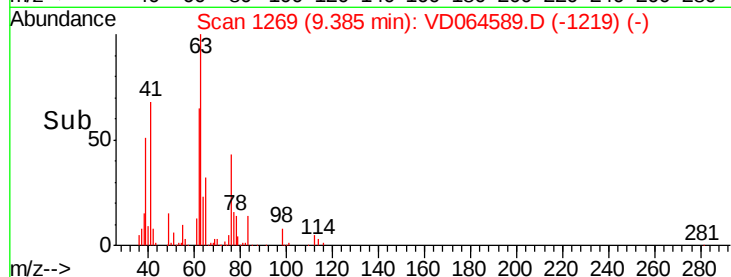
40000

20000

0

9.30 9.40 9.50

Time-->



#46

Dibromomethane

Concen: 48.665 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

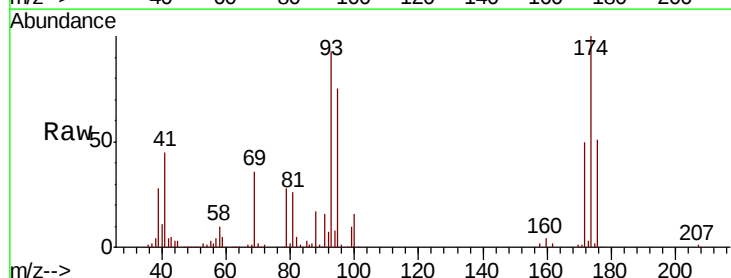
Tgt Ion: 93 Resp: 118634

Ion Ratio Lower Upper

93 100

95 82.4 64.6 97.0

174 112.2 88.1 132.1



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

80000

60000

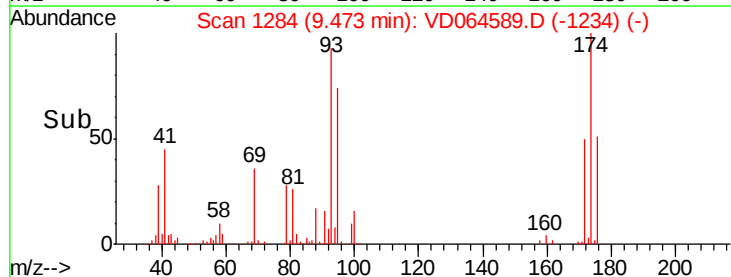
40000

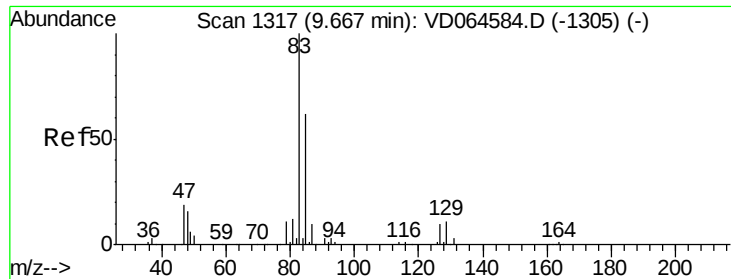
20000

0

9.40 9.50 9.60

Time-->





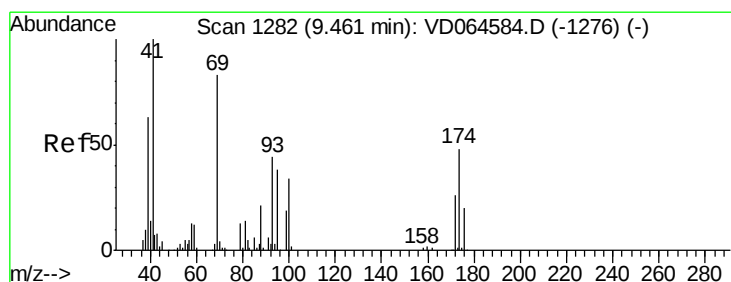
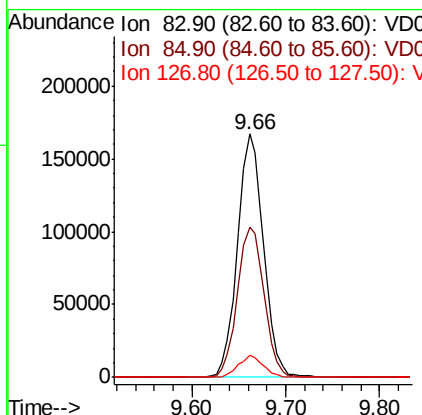
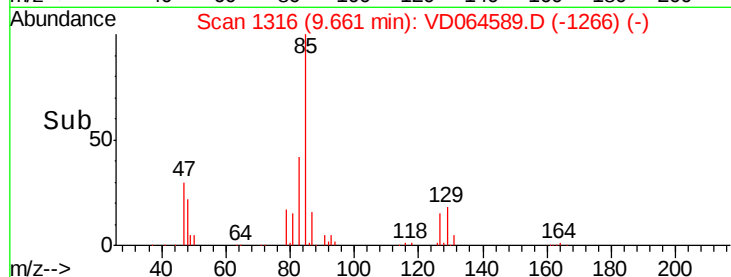
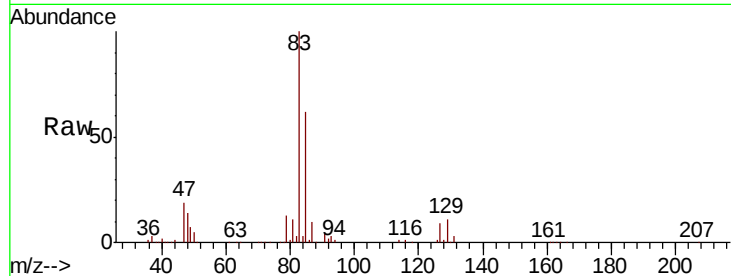
#47
Bromodichloromethane
Concen: 49.557 ug/l
RT: 9.66 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	321471
Ion Ratio	100	Lower	Upper
83	100		
85	61.7	49.5	74.3
127	9.3	7.8	11.6

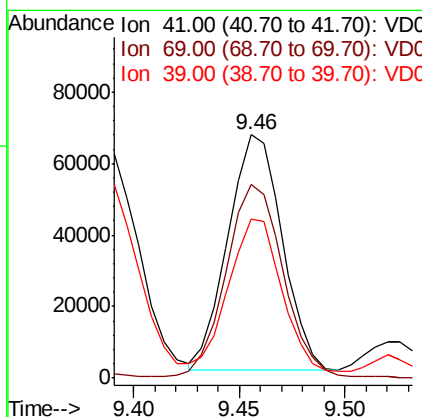
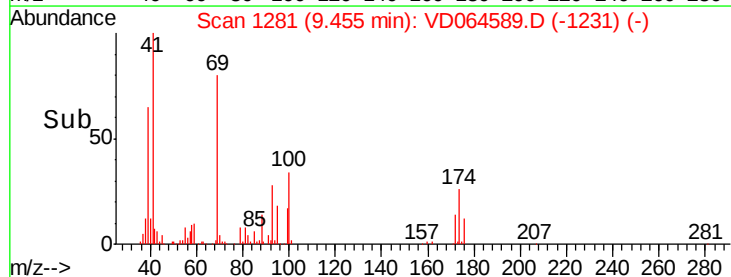
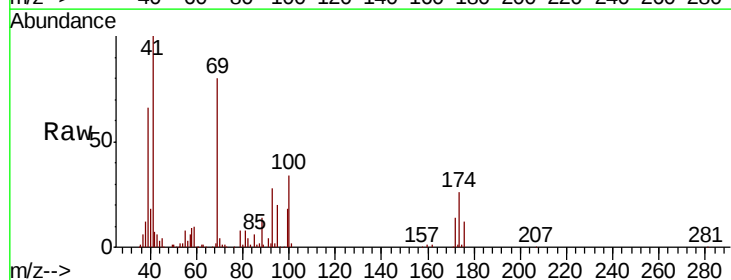
Manual Integrations
APPROVED

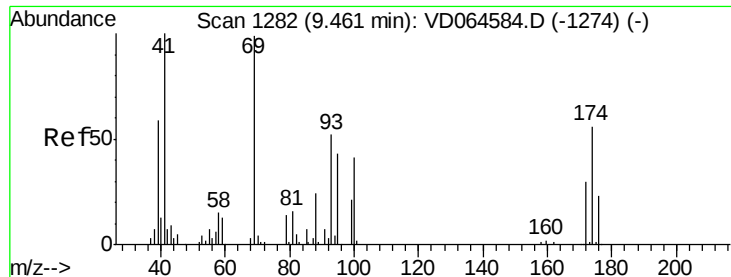
apatel
12/27/2019 2:06:55 PM



#48
Methyl methacrylate
Concen: 47.496 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	41	Resp	117308
Ion Ratio	100	Lower	Upper
41	100		
69	87.7	63.0	94.6
39	62.8	47.4	71.2





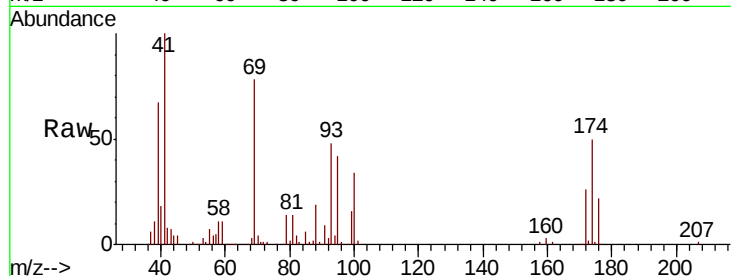
#49
1,4-Dioxane
Concen: 962.817 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

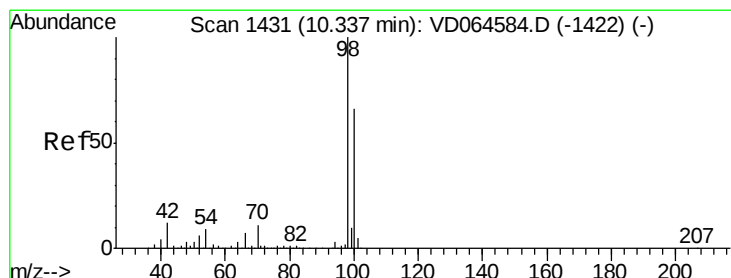
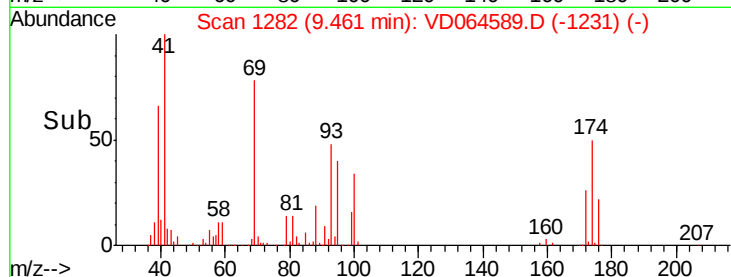
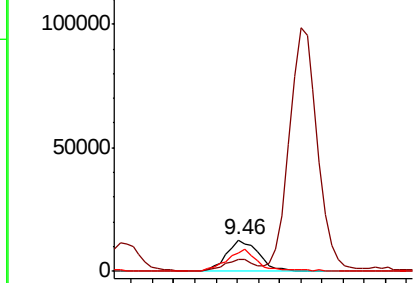
Tot Ion	Ratio	Lower	Upper
88	100		
43	37.5	27.7	41.5
58	63.6	53.8	80.6

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

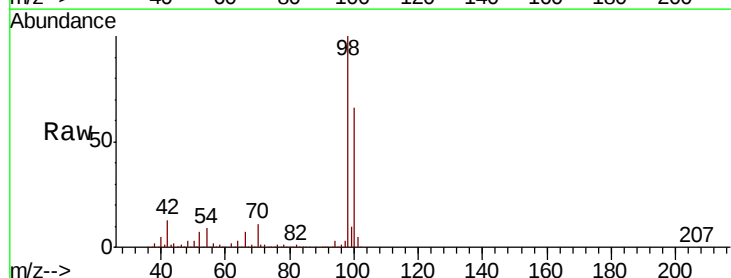


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

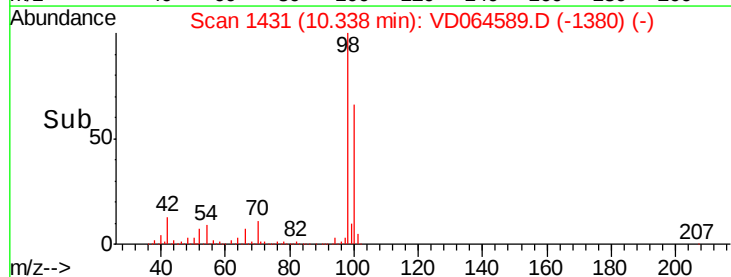
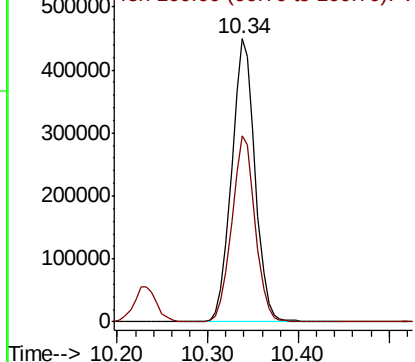


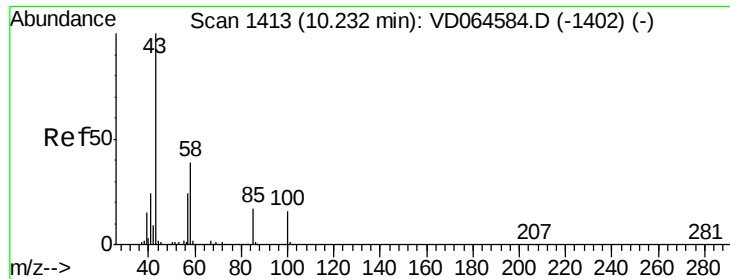
#50
Toluene-d8
Concen: 49.353 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 235.389 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 610295

Ion Ratio Lower Upper

43 100

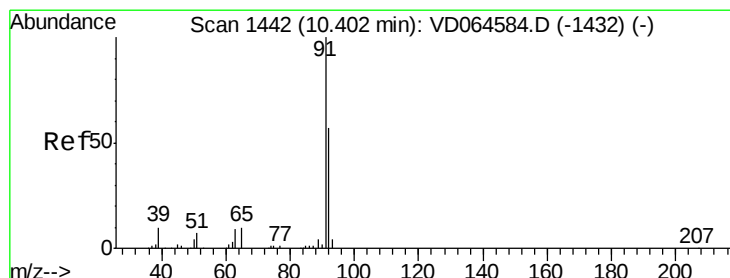
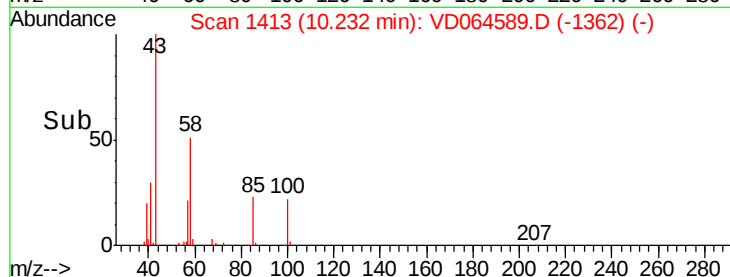
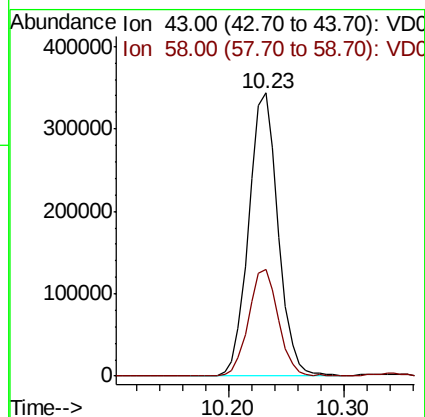
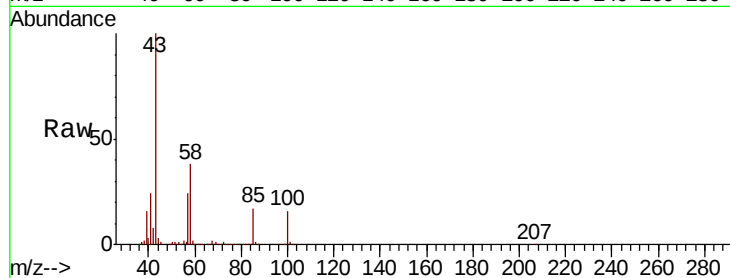
58 38.1 30.2 45.2

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#52

Toluene

Concen: 50.353 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD064589.D

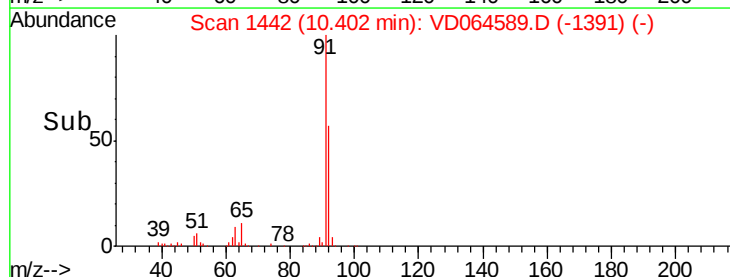
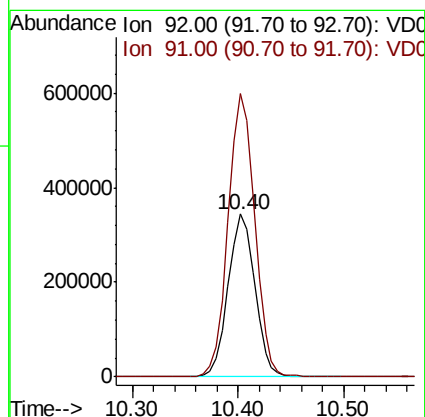
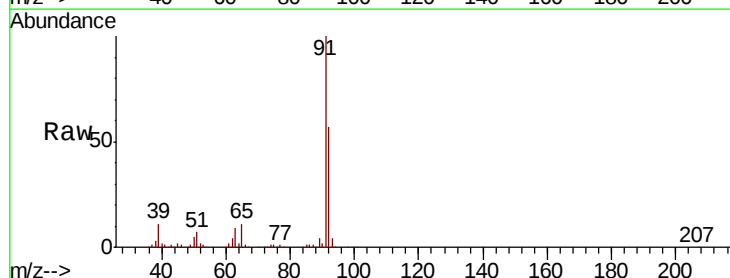
Acq: 26 Dec 2019 10:03

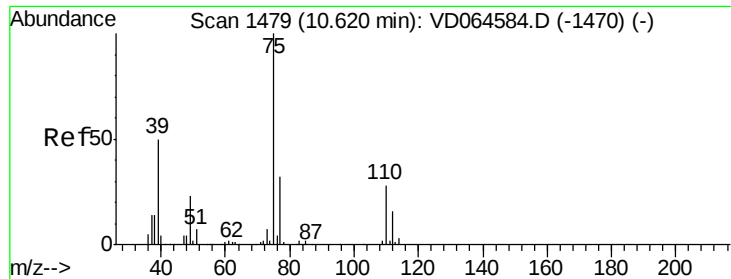
Tgt Ion: 92 Resp: 604973

Ion Ratio Lower Upper

92 100

91 172.8 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 50.094 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 302957

Ion Ratio Lower Upper

75 100

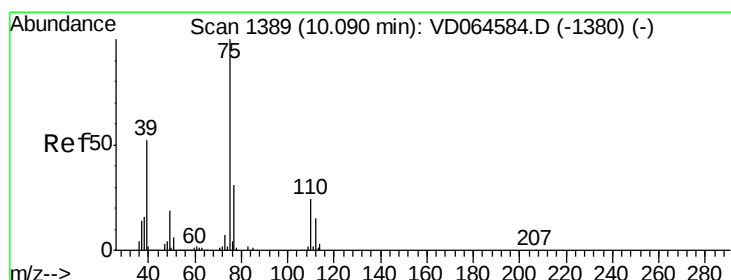
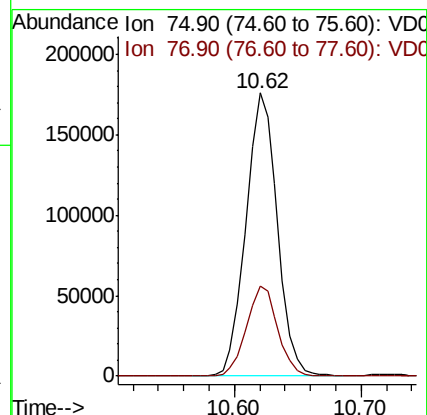
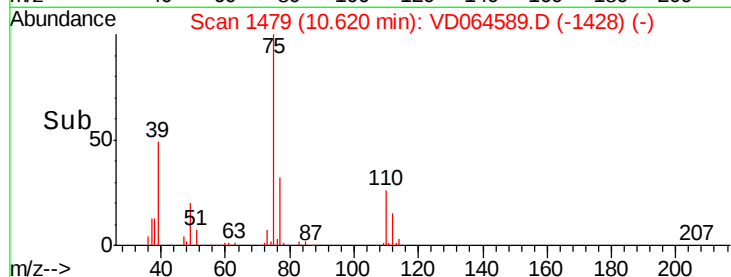
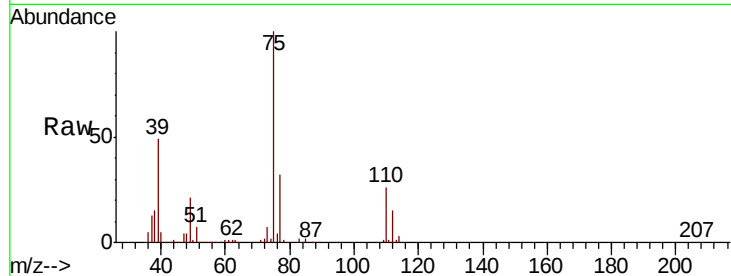
77 31.9 25.4 38.2

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#54

cis-1,3-Dichloropropene

Concen: 50.587 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

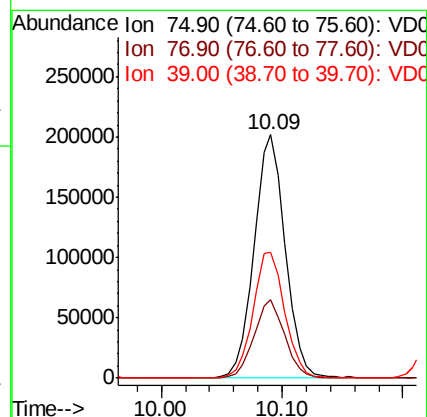
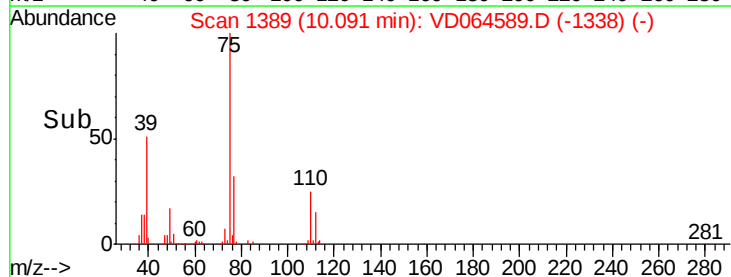
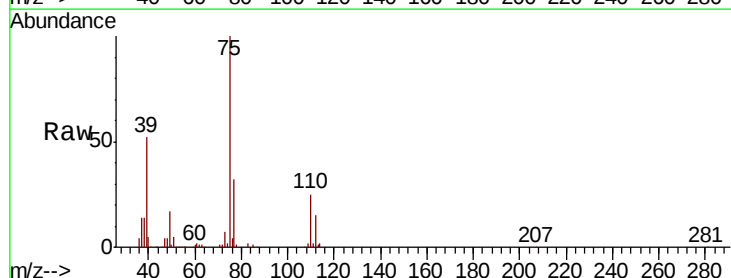
Tgt Ion: 75 Resp: 360749

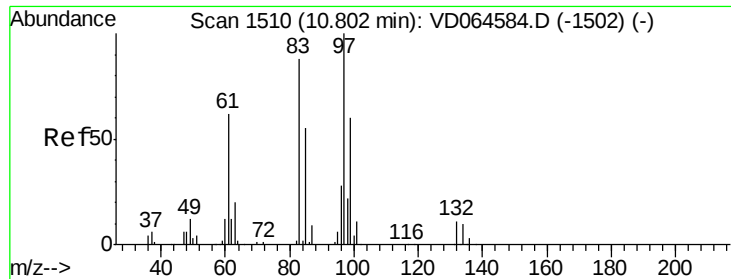
Ion Ratio Lower Upper

75 100

77 32.0 24.6 36.8

39 51.4 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 48.926 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 160736

Ion Ratio Lower Upper

97 100

83 84.9 70.2 105.4

85 52.0 44.0 66.0

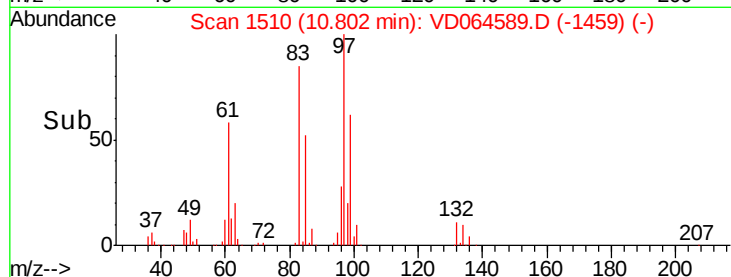
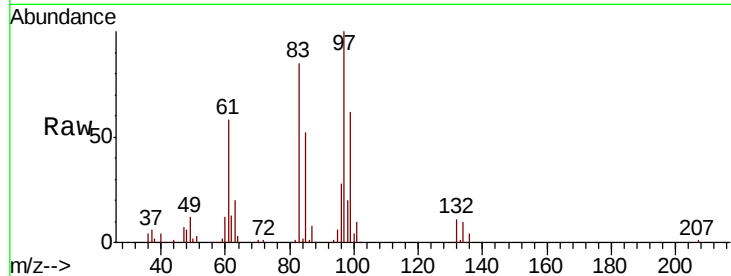
99 61.8 47.8 71.6

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM

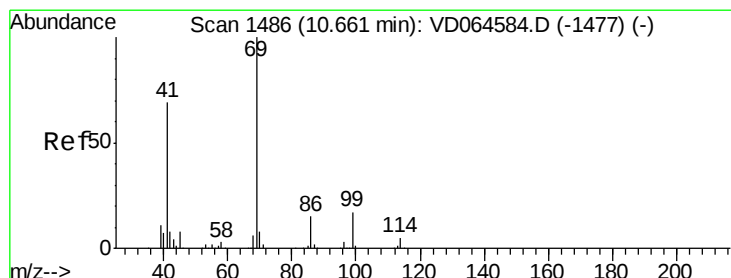
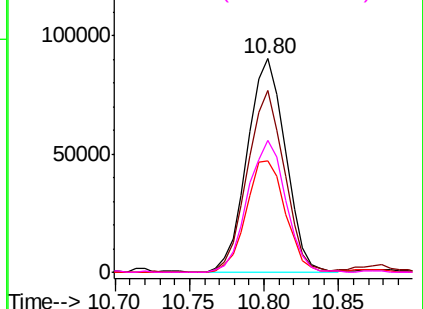


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 48.886 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

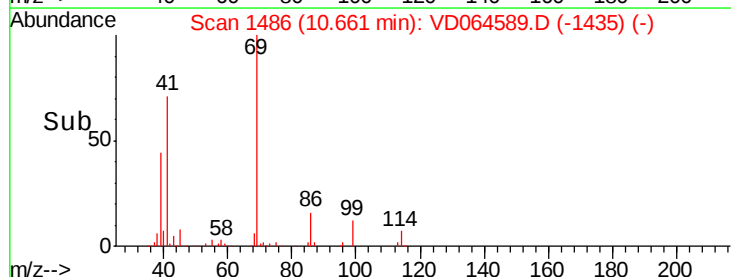
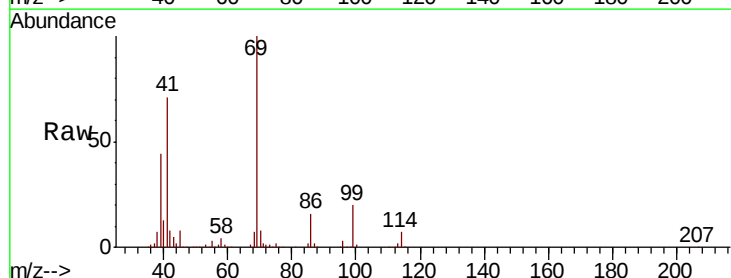
Tgt Ion: 69 Resp: 200577

Ion Ratio Lower Upper

69 100

41 69.4 55.3 82.9

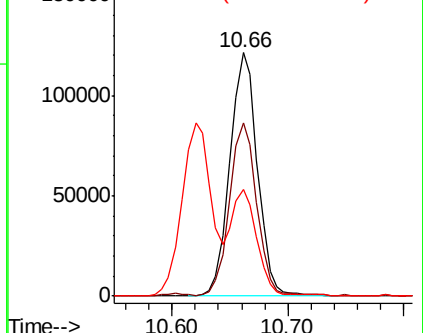
39 41.5 33.8 50.8

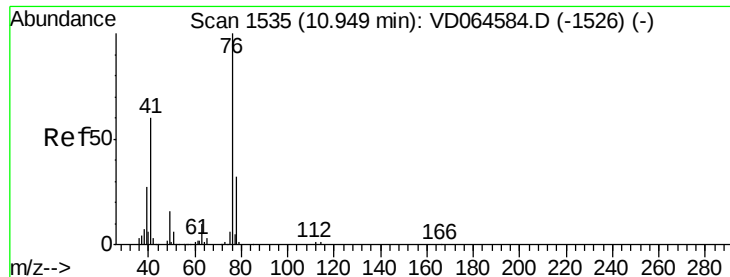


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 48.055 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 271833

Ion Ratio Lower Upper

76 100

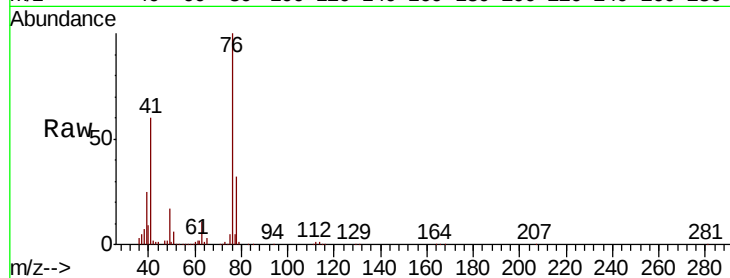
78 32.2 26.2 39.4

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

10.95

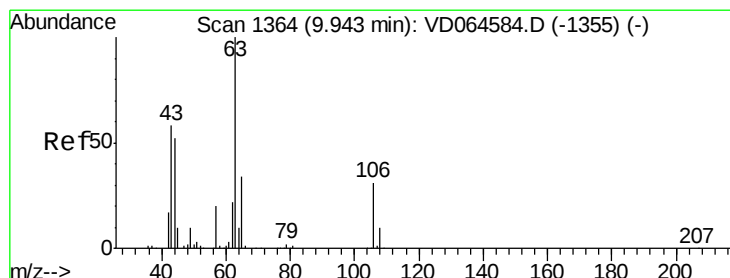
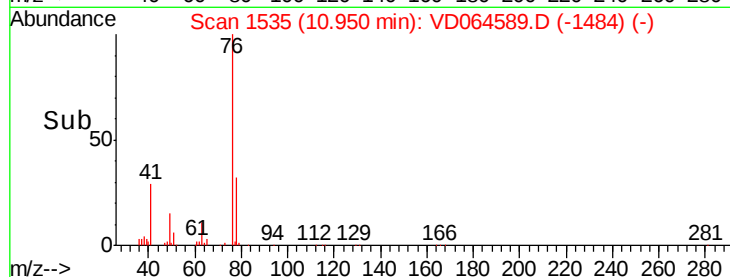
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 224.894 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064589.D

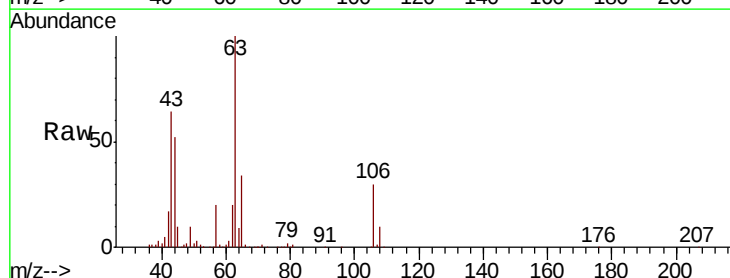
Acq: 26 Dec 2019 10:03

Tgt Ion: 63 Resp: 351551

Ion Ratio Lower Upper

63 100

106 30.7 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC

9.94

200000

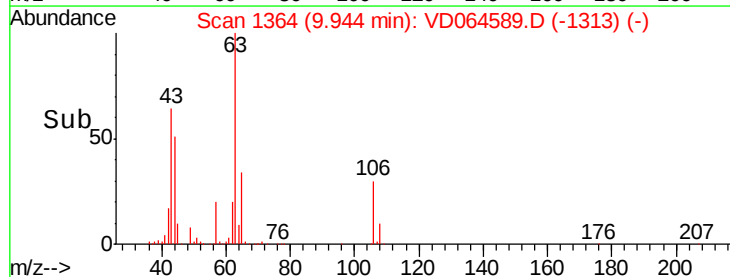
150000

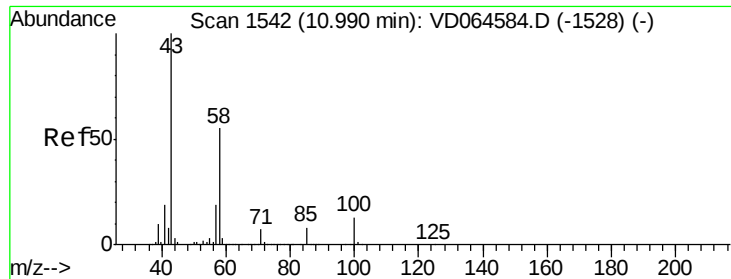
100000

50000

0

Time-->





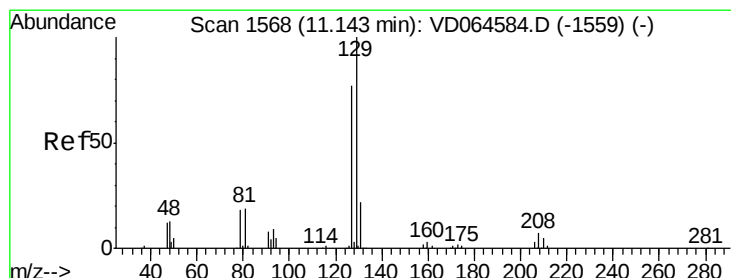
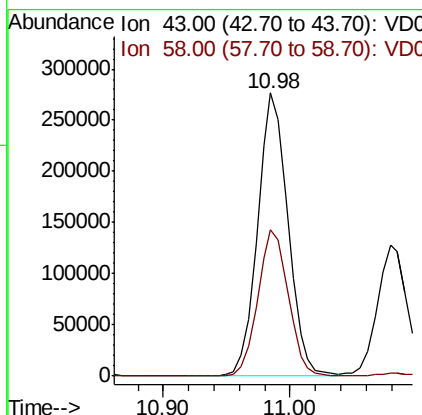
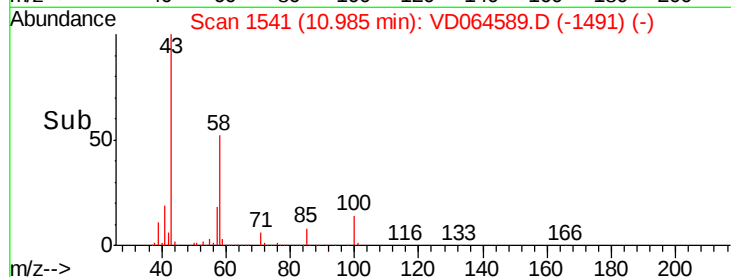
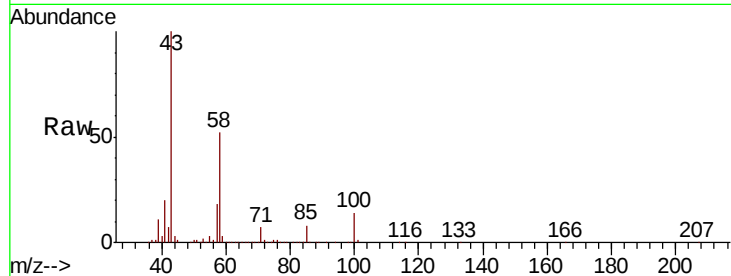
#59
2-Hexanone
Concen: 262.463 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 461862
Ion Ratio Lower Upper
43 100
58 52.0 26.4 79.0

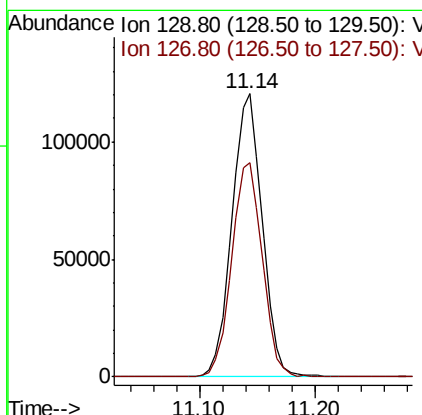
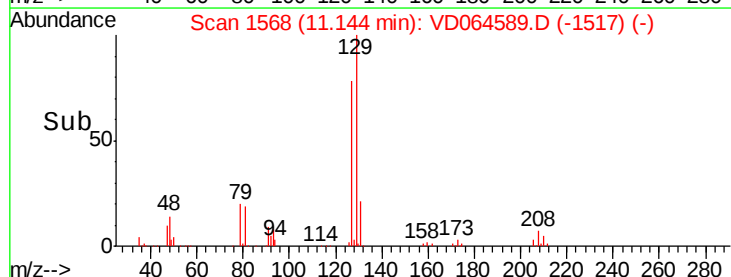
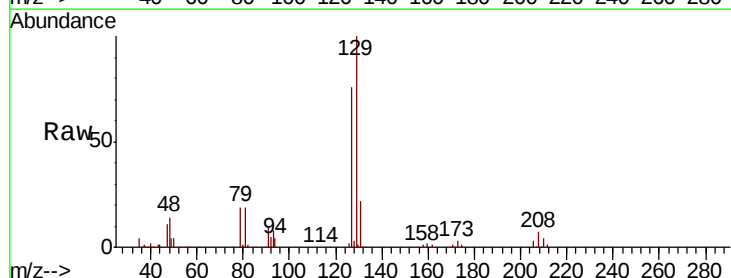
Manual Integrations
APPROVED

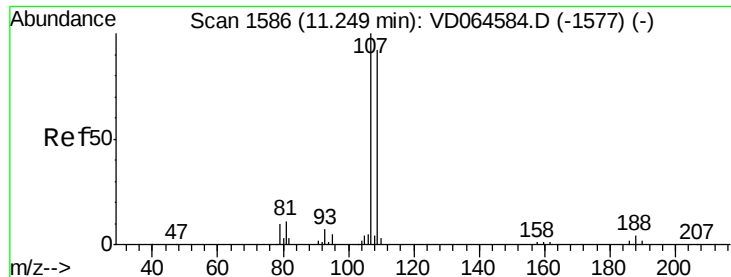
apatel
12/27/2019 2:06:55 PM



#60
Dibromochloromethane
Concen: 48.147 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion: 129 Resp: 218738
Ion Ratio Lower Upper
129 100
127 76.4 38.4 115.2





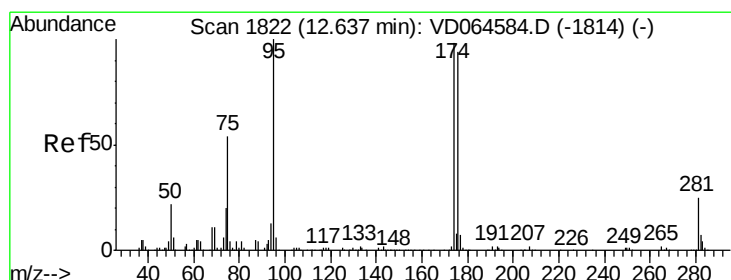
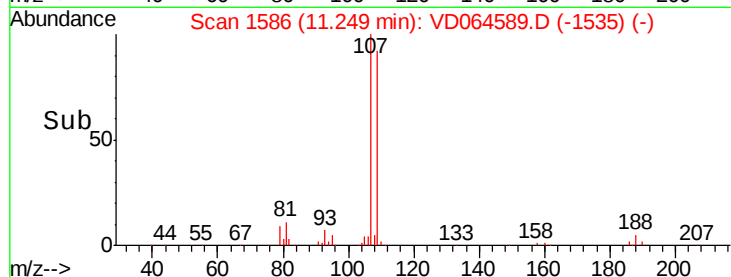
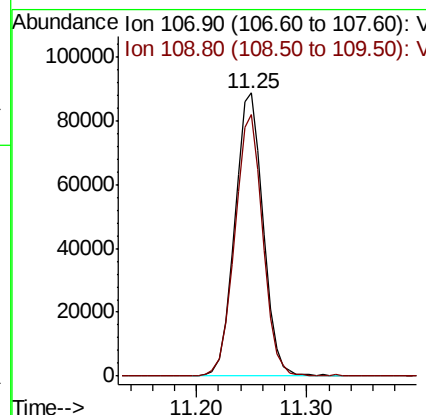
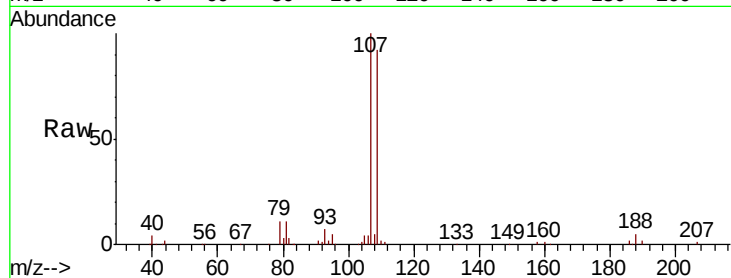
#61
 1,2-Dibromoethane
 Concen: 49.185 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 107 Resp: 159376
 Ion Ratio Lower Upper
 107 100
 109 91.1 75.6 113.4

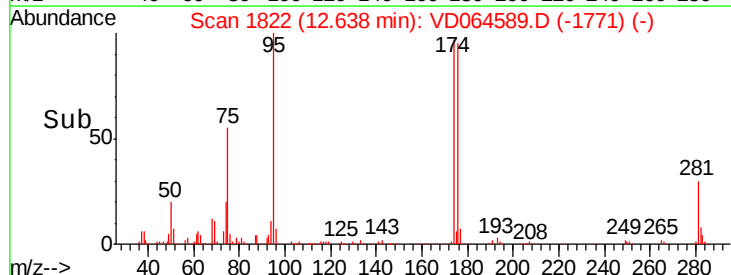
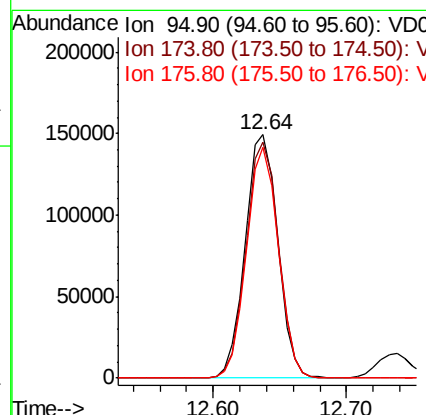
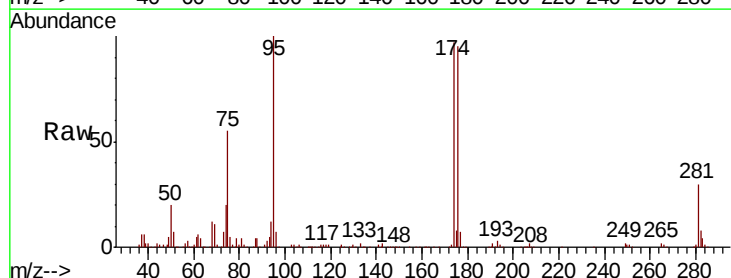
Manual Integrations
 APPROVED

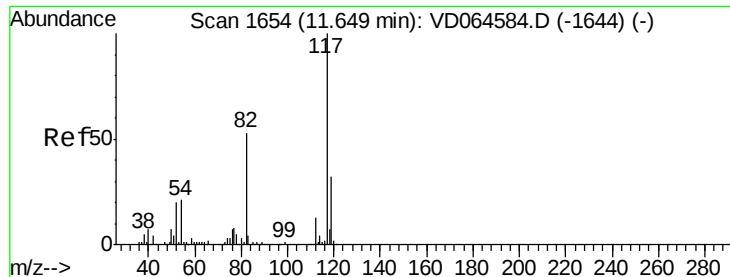
apatel
 12/27/2019 2:06:55 PM



#62
 4-Bromofluorobenzene
 Concen: 48.566 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Tgt Ion: 95 Resp: 251496
 Ion Ratio Lower Upper
 95 100
 174 96.4 0.0 193.2
 176 92.8 0.0 184.2





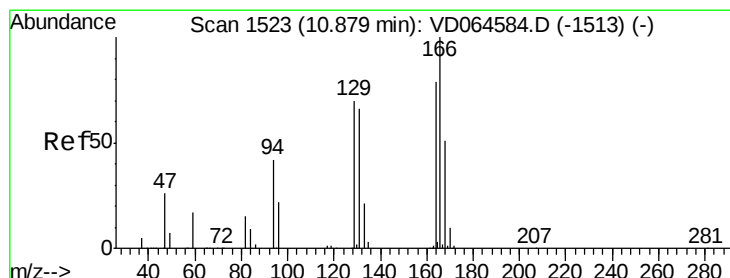
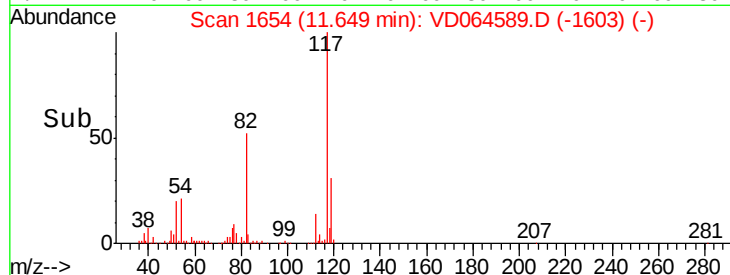
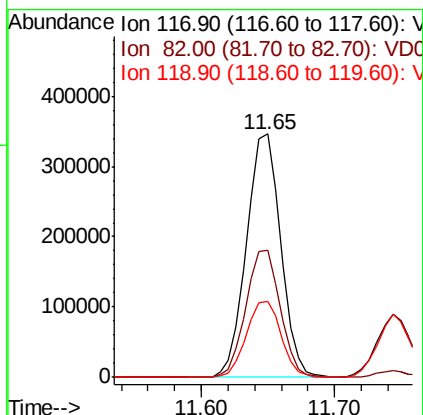
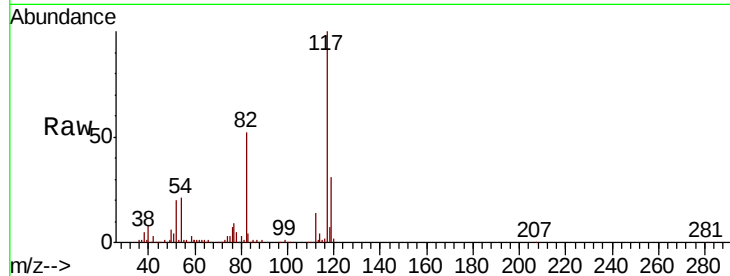
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.2	63.4
119	31.3	26.0	39.0

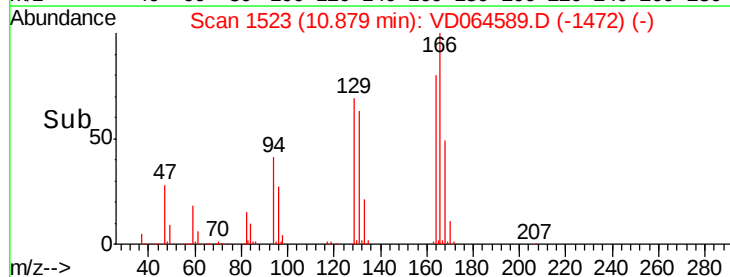
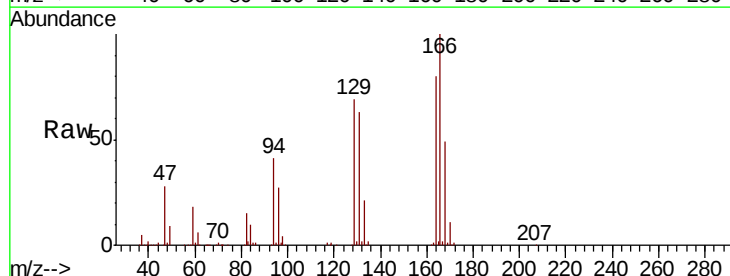
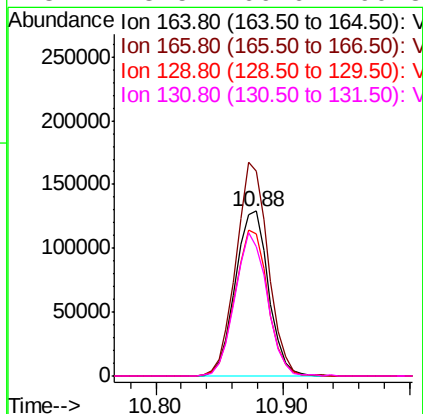
Manual Integrations
APPROVED

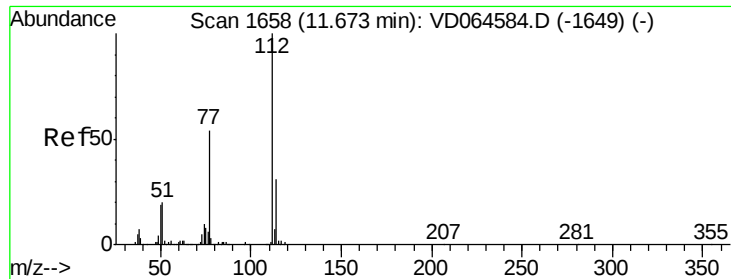
apatel
12/27/2019 2:06:55 PM



#64
Tetrachloroethene
Concen: 49.913 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	101.3	151.9
129	86.0	70.5	105.7
131	78.5	66.6	99.8





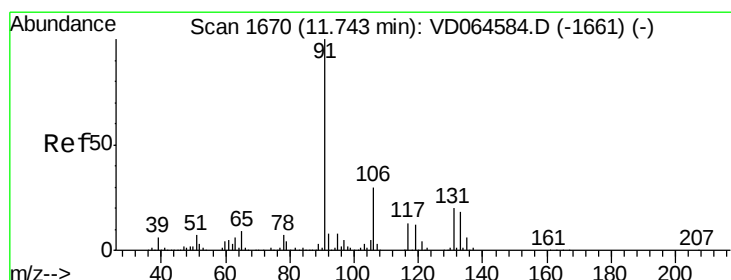
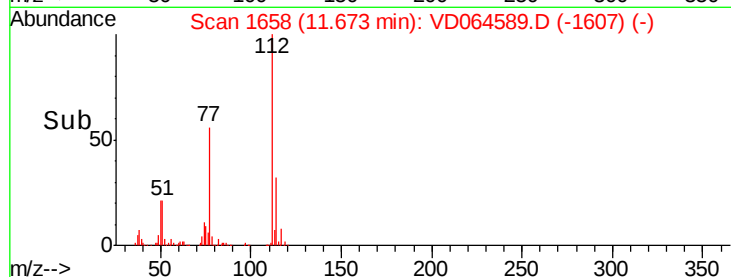
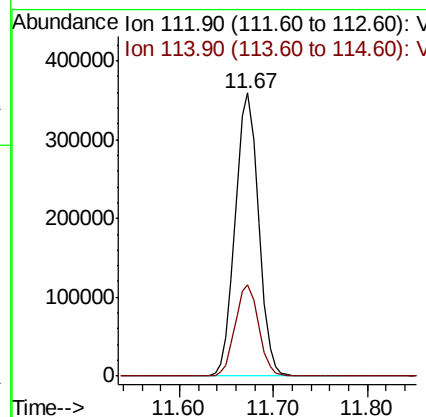
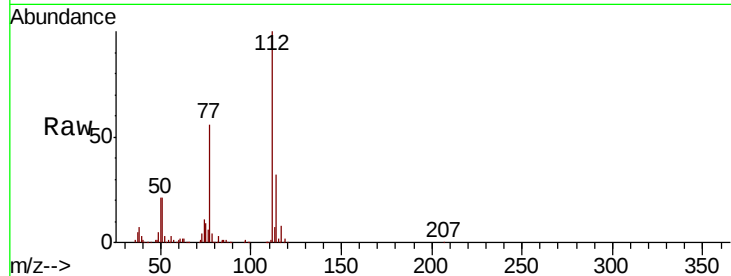
#65
Chlorobenzene
Concen: 49.006 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.8	37.2

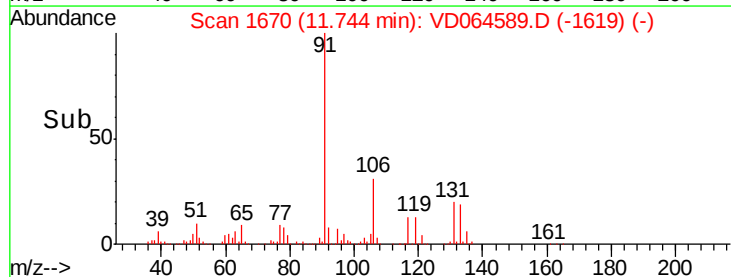
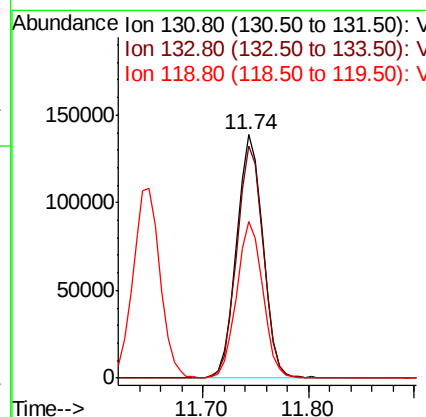
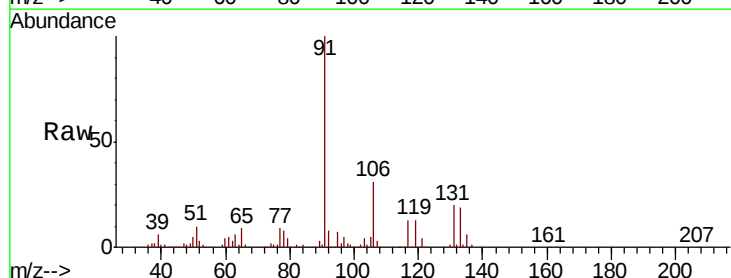
Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.613 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	48.3	144.8
119	64.3	32.1	96.3





#67

Ethyl Benzene

Concen: 50.465 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1163430

Ion Ratio Lower Upper

91 100

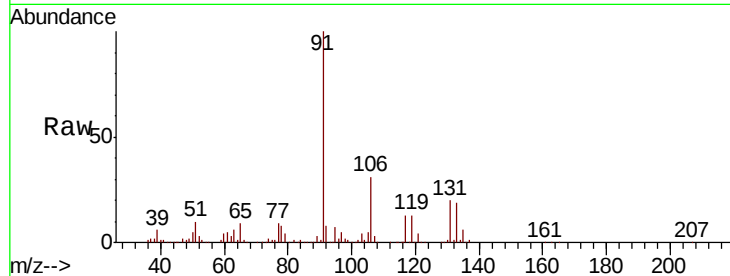
106 31.0 24.6 36.8

Manual Integrations

APPROVED

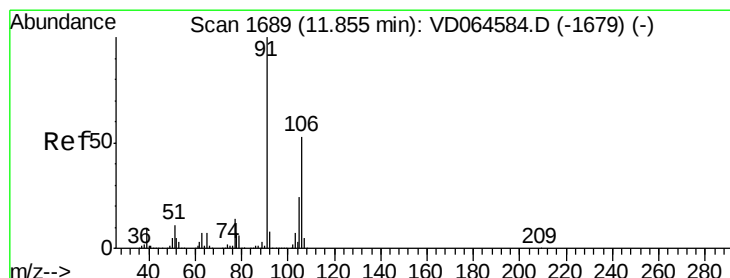
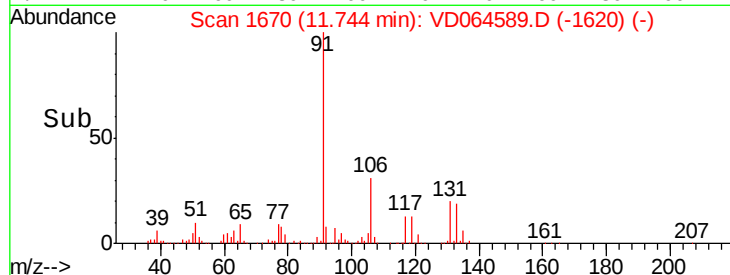
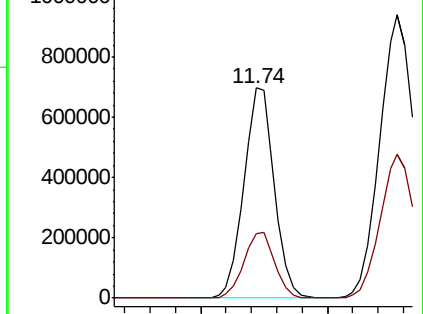
apatel

12/27/2019 2:06:55 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 100.823 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064589.D

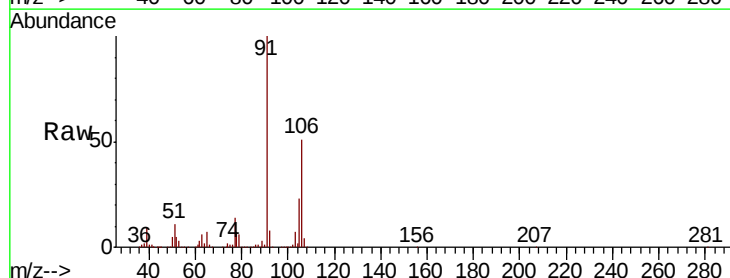
Acq: 26 Dec 2019 10:03

Tgt Ion: 106 Resp: 897173

Ion Ratio Lower Upper

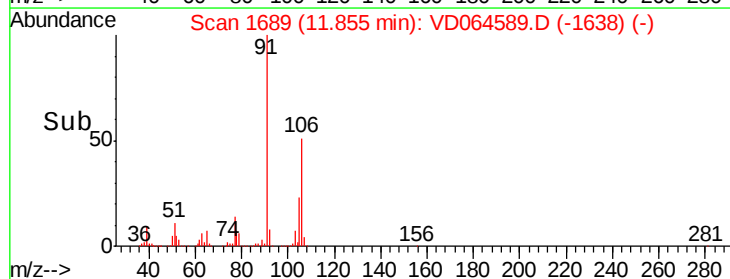
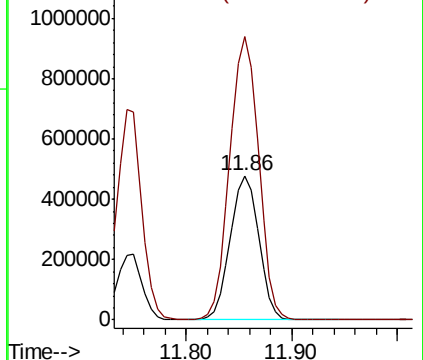
106 100

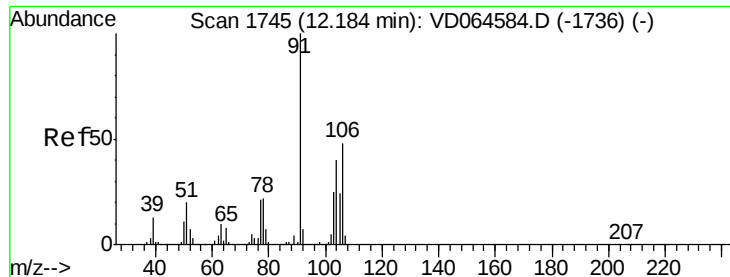
91 198.7 156.3 234.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC





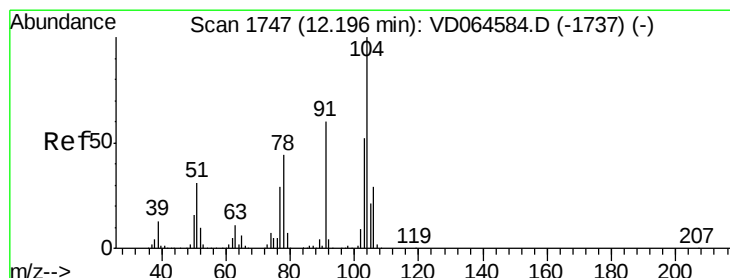
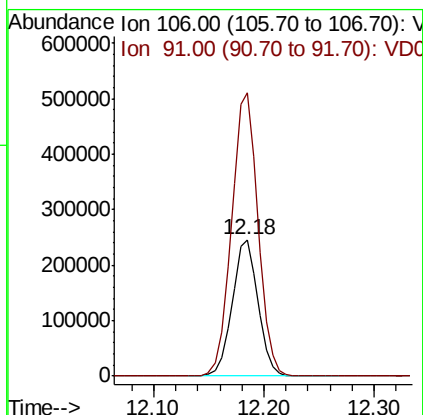
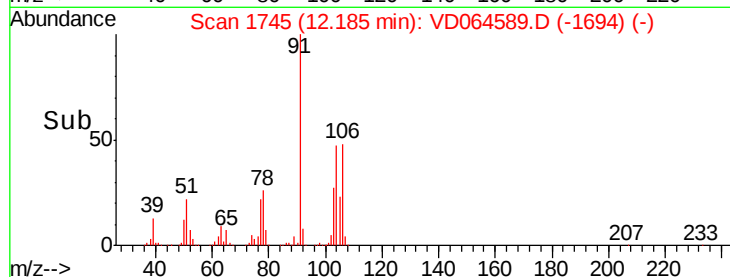
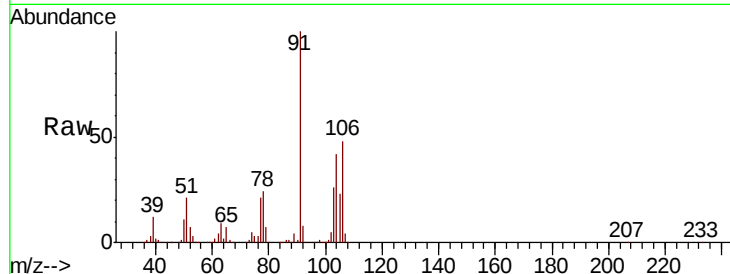
#69
o-Xylene
Concen: 50.070 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		402442		
91	212.8	104.8	314.4		

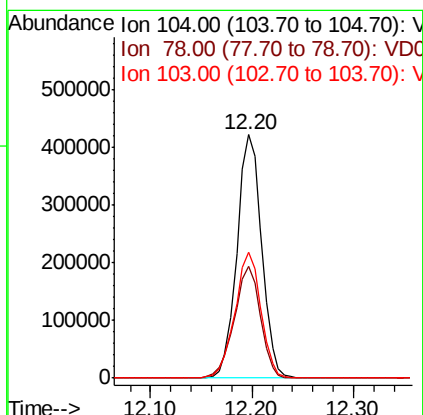
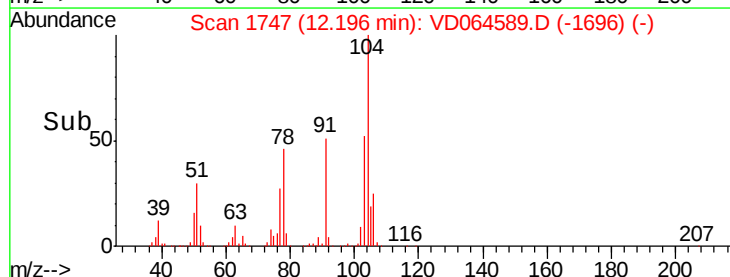
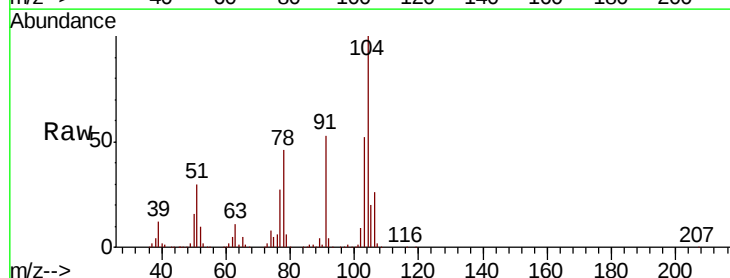
Manual Integrations
APPROVED

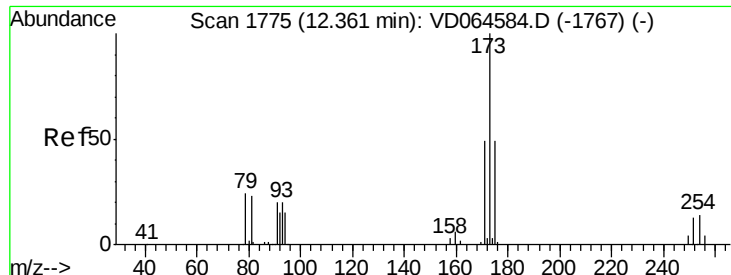
apatel
12/27/2019 2:06:55 PM



#70
Styrene
Concen: 50.369 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		710616		
78	49.0	38.2	57.2		
103	54.3	44.6	67.0		





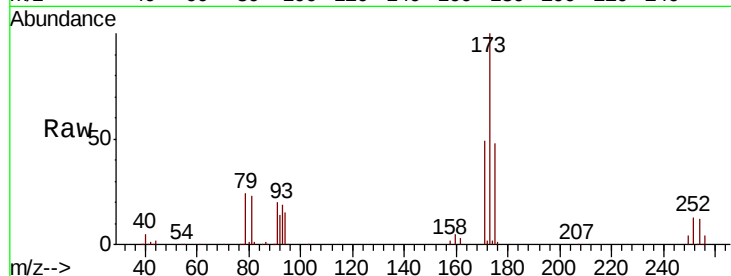
#71
Bromoform
Concen: 47.881 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.6	73.8
254	0.2	0.1	0.1#

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

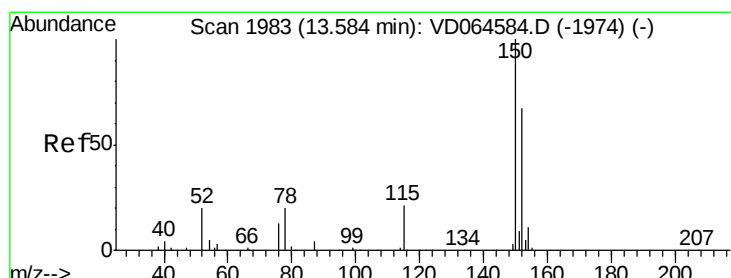
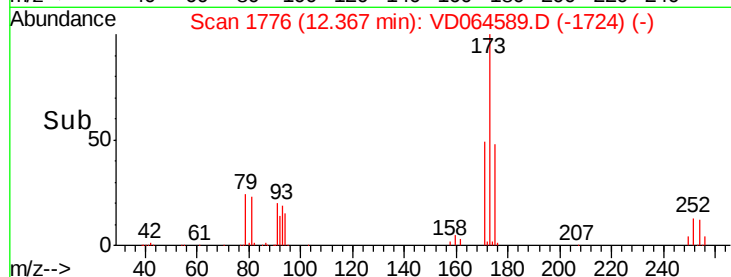
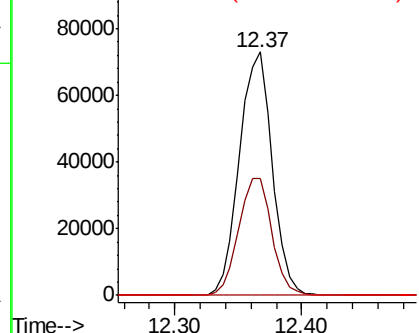


Abundance

Ion 172.70 (172.40 to 173.40): V

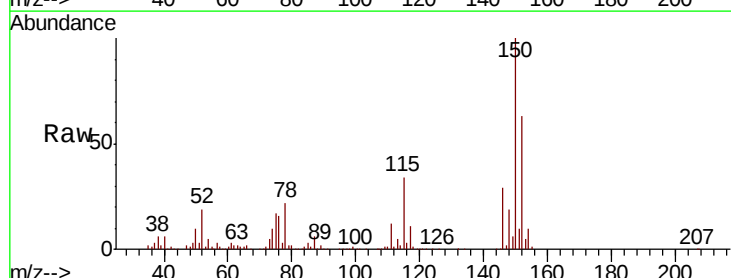
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.8	83.4
150	173.1	0.0	351.4

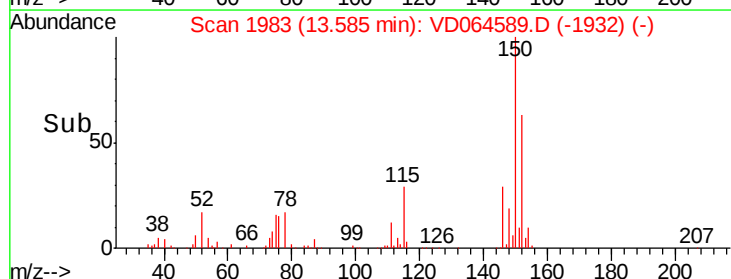
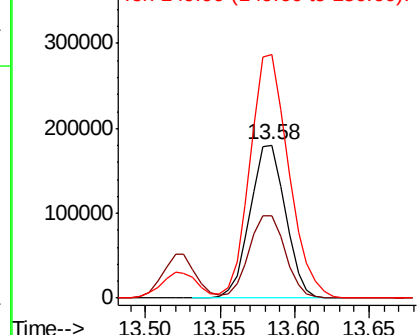


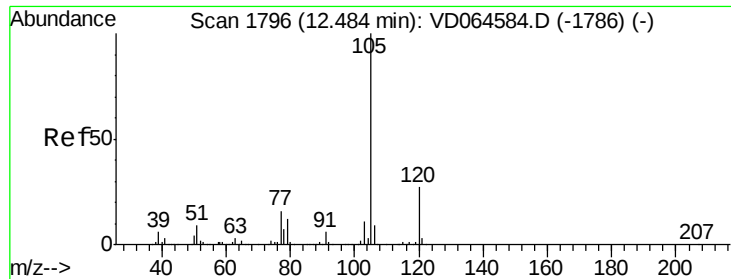
Abundance

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: 52.706 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1117155

Ion Ratio Lower Upper

105 100

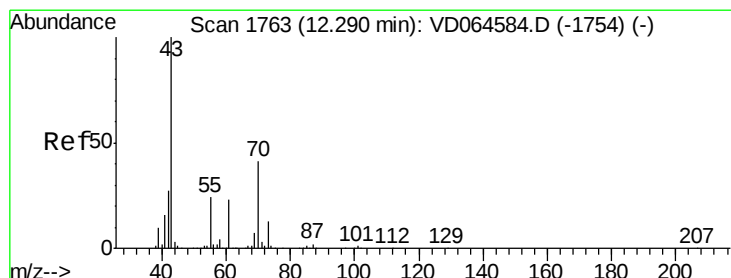
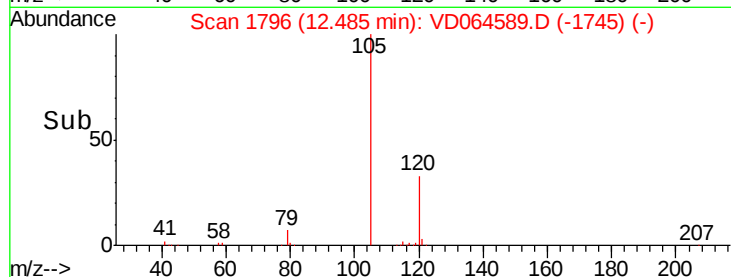
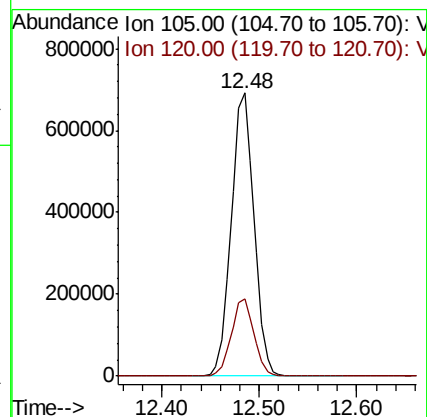
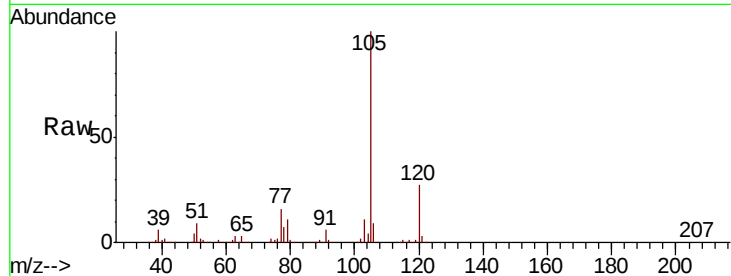
120 27.1 13.5 40.5

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#74

N-ethyl acetate

Concen: 51.028 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion: 43 Resp: 231205

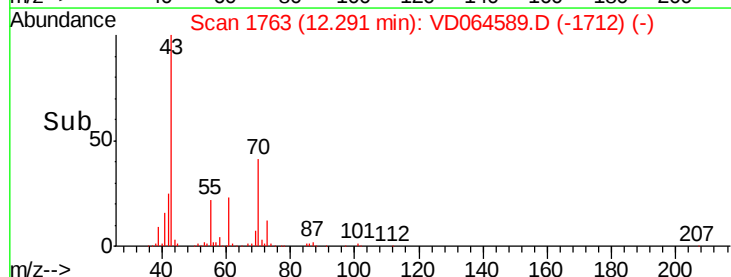
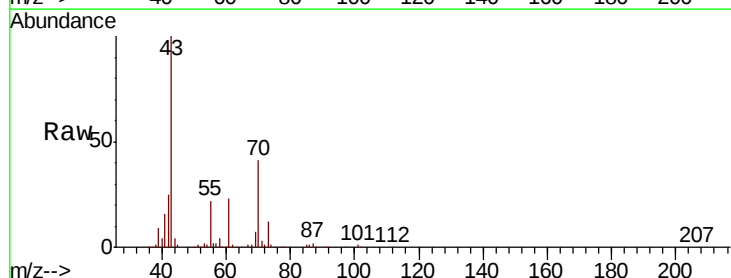
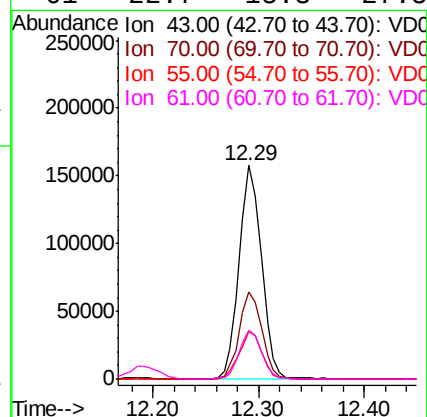
Ion Ratio Lower Upper

43 100

70 41.0 33.4 50.0

55 22.8 19.4 29.0

61 22.7 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 48.956 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

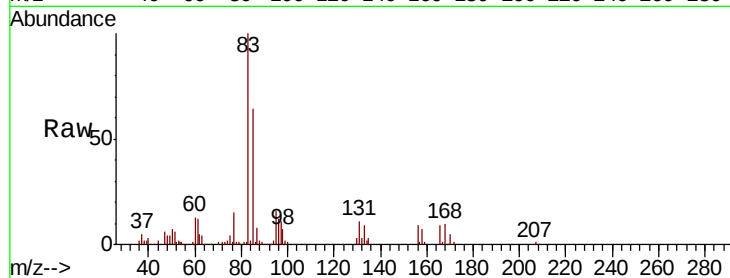
ClientSampleId :

VSTDCCC050

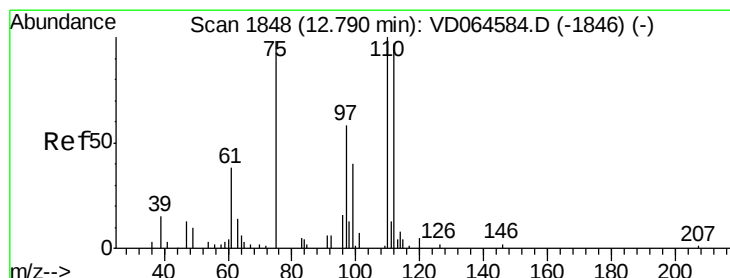
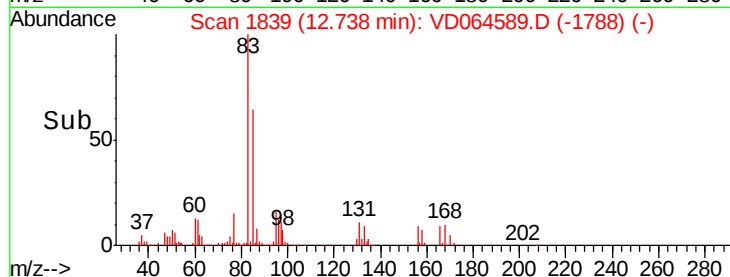
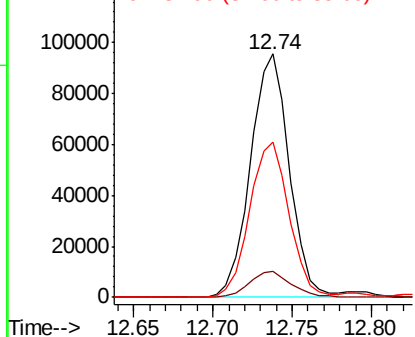
Tot Ion:	83	Resp:	163010
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.8	17.4
85	64.7	32.3	96.9

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 41.259 ug/l m

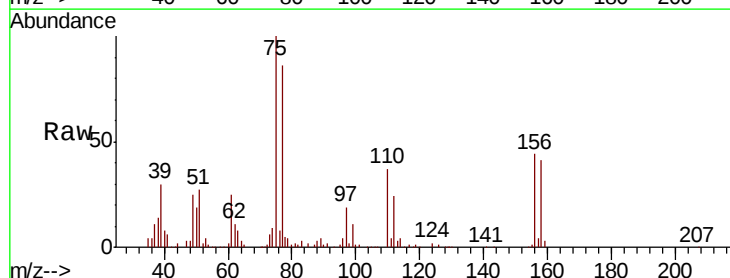
RT: 12.78 min Scan# 1847

Delta R.T. -0.01 min

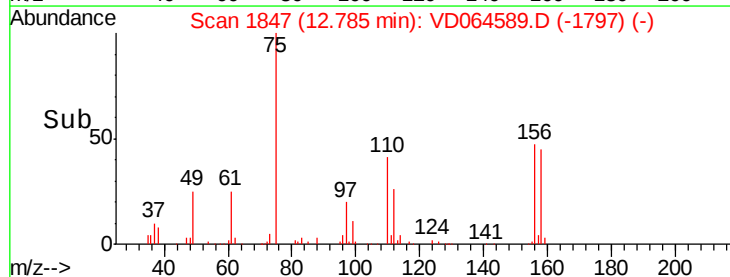
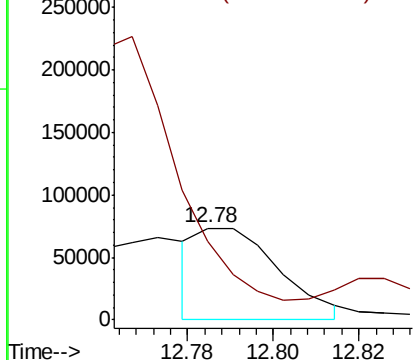
Lab File: VD064589.D

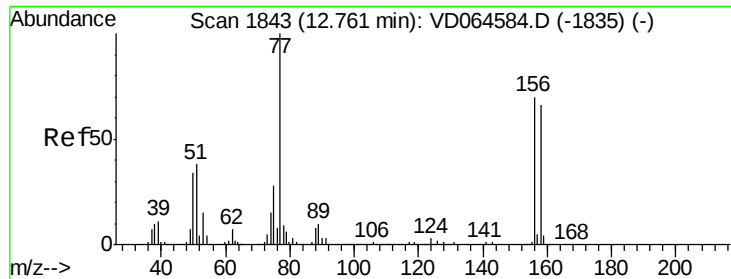
Acq: 26 Dec 2019 10:03

Tgt Ion:	75	Resp:	96635
Ion	Ratio	Lower	Upper
75	100		
77	432.2	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 50.215 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

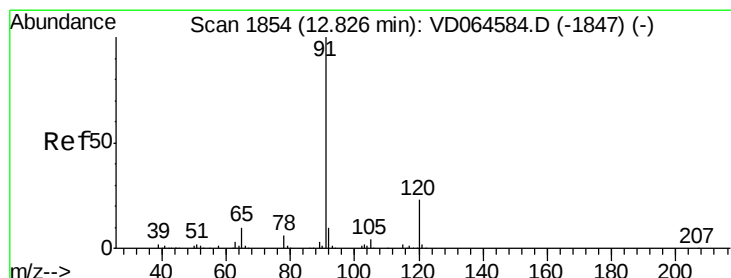
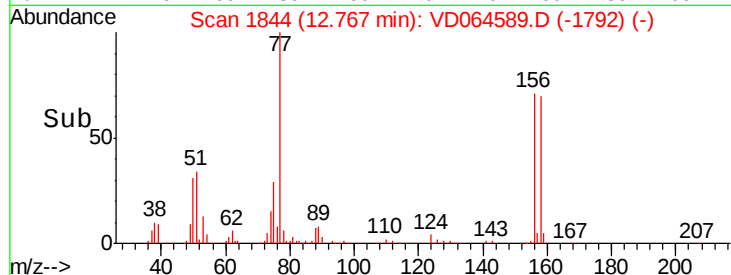
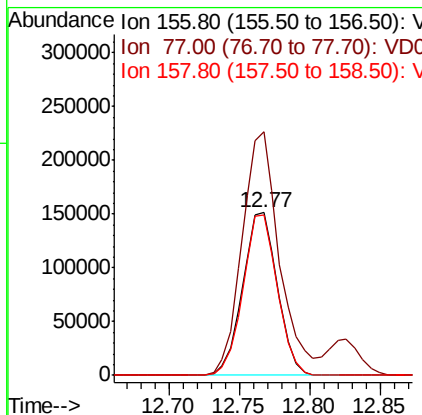
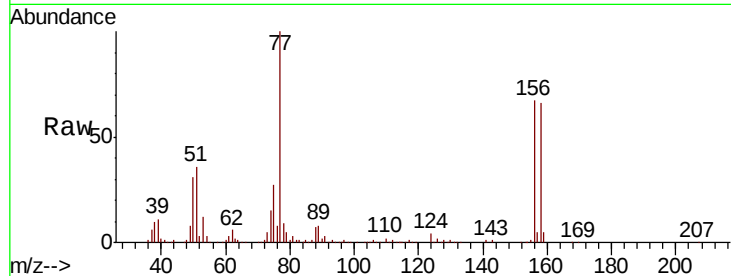
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	159.7	80.9	242.7
158	97.7	48.0	144.2

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#78

n-propylbenzene

Concen: 52.542 ug/l

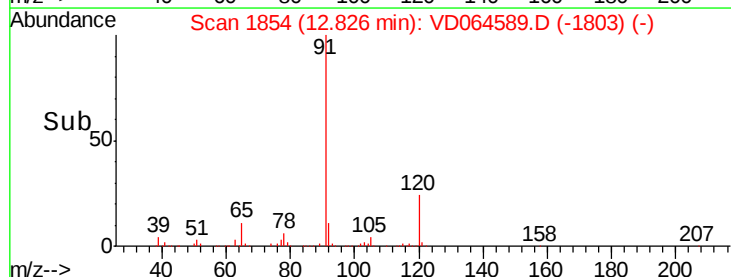
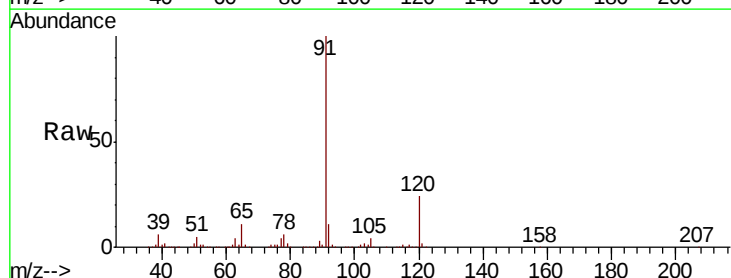
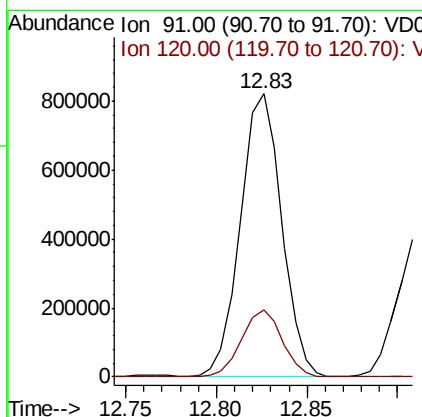
RT: 12.83 min Scan# 1854

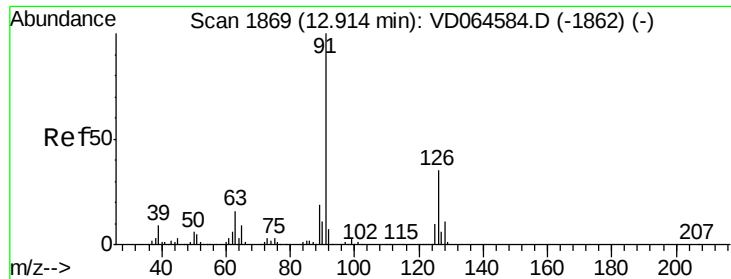
Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.9	35.9





#79

2-Chlorotoluene

Concen: 51.110 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 694281

Ion Ratio Lower Upper

91 100

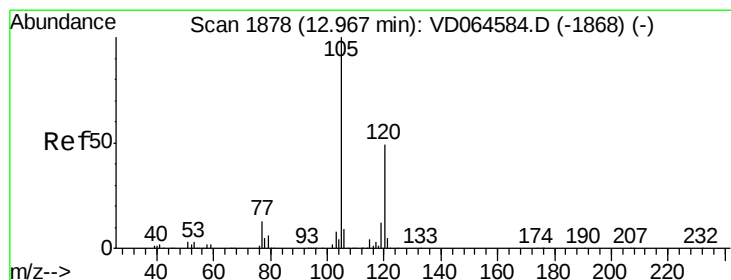
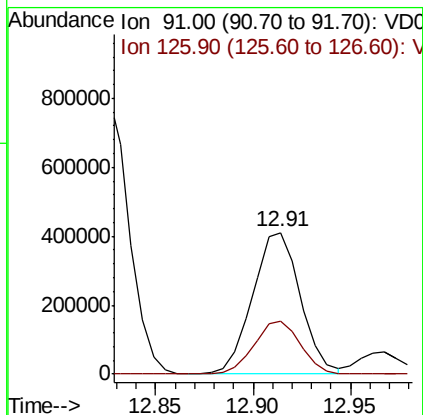
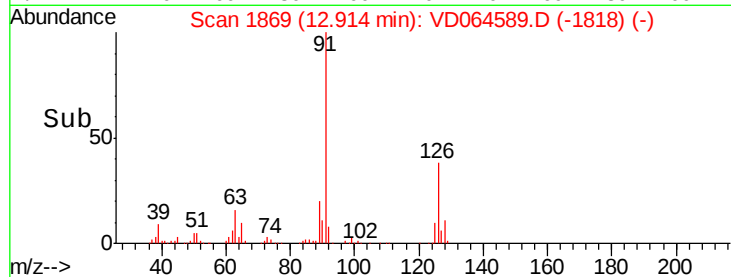
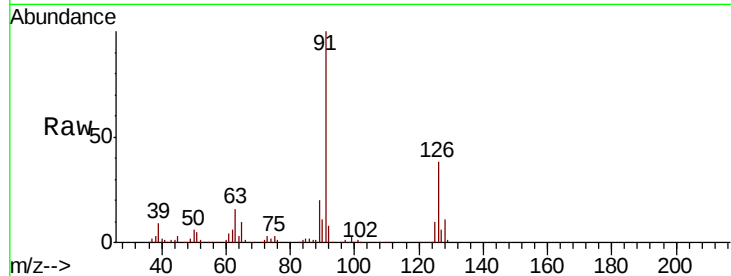
126 36.7 17.8 53.5

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



#80

1,3,5-Trimethylbenzene

Concen: 52.918 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.01 min

Lab File: VD064589.D

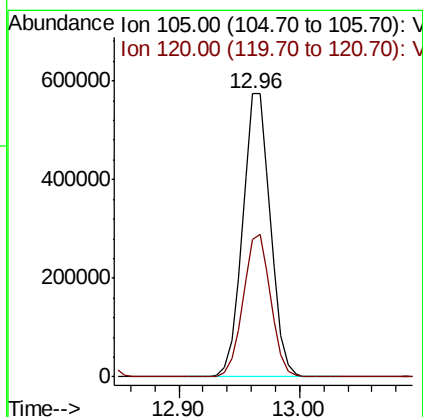
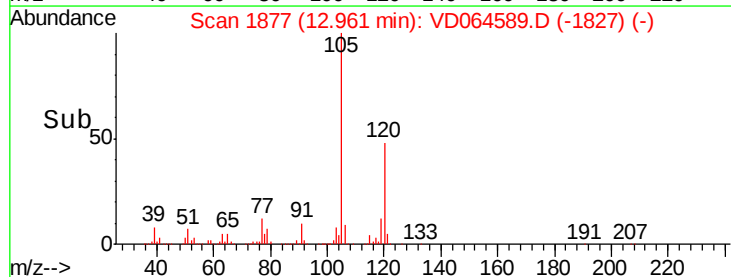
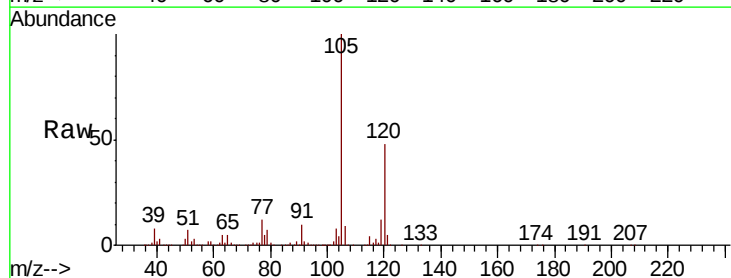
Acq: 26 Dec 2019 10:03

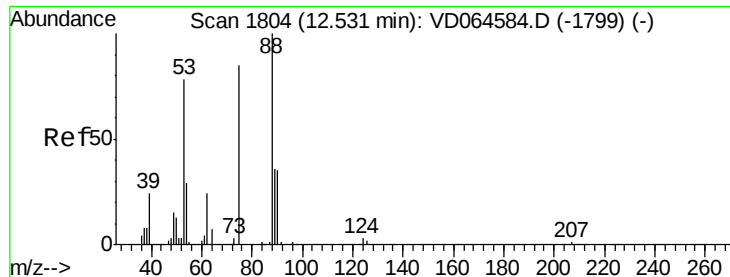
Tgt Ion: 105 Resp: 921387

Ion Ratio Lower Upper

105 100

120 50.0 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.617 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 57804

Ion Ratio Lower Upper

75 100

53 95.7 78.8 118.2

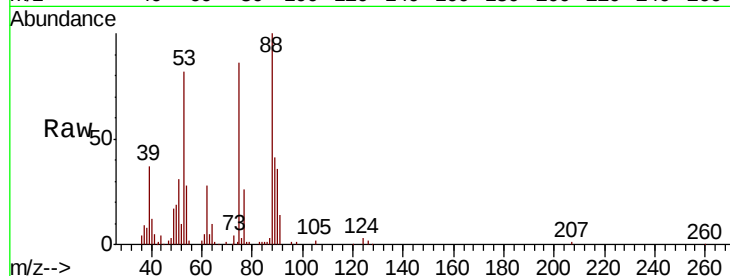
89 47.6 38.3 57.5

Manual Integrations

APPROVED

apatel

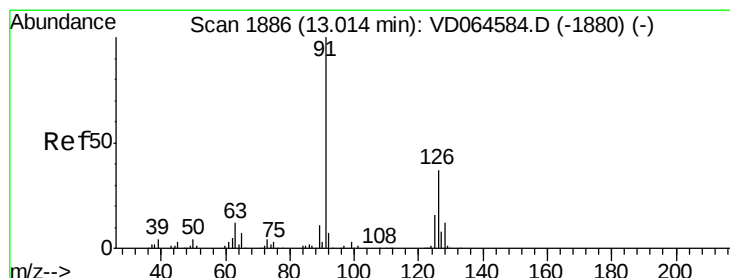
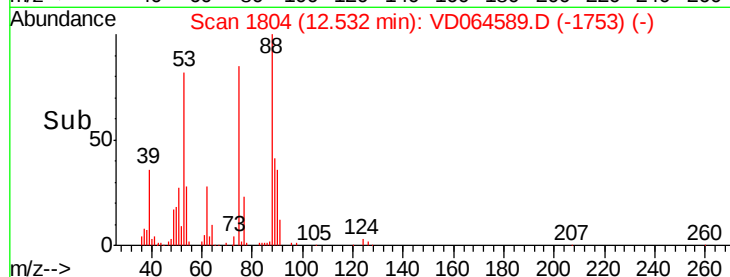
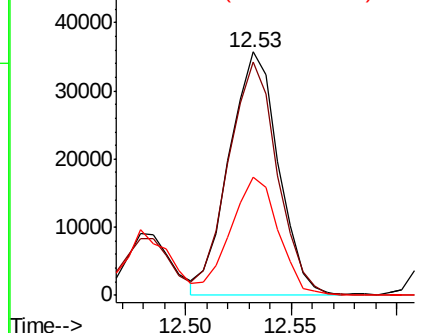
12/27/2019 2:06:55 PM



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 51.541 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064589.D

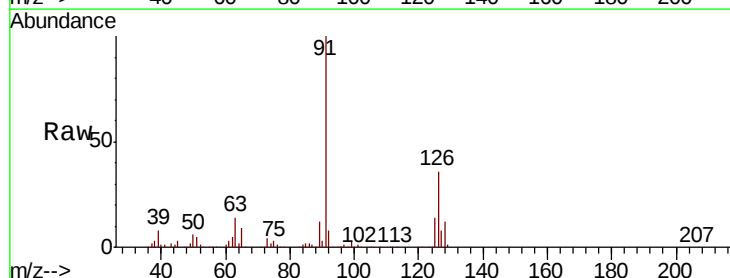
Acq: 26 Dec 2019 10:03

Tgt Ion: 91 Resp: 745079

Ion Ratio Lower Upper

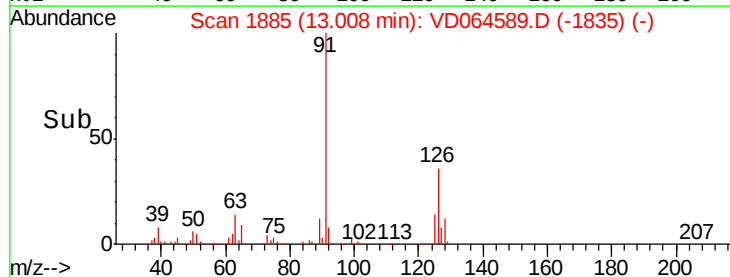
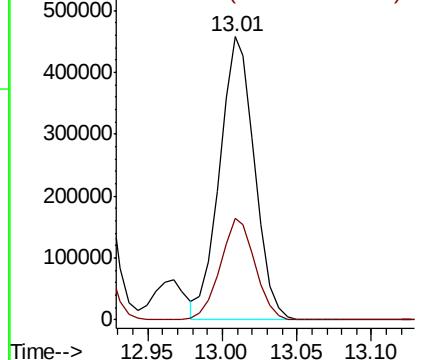
91 100

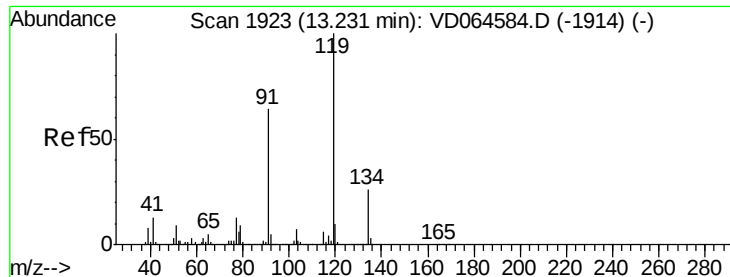
126 35.7 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





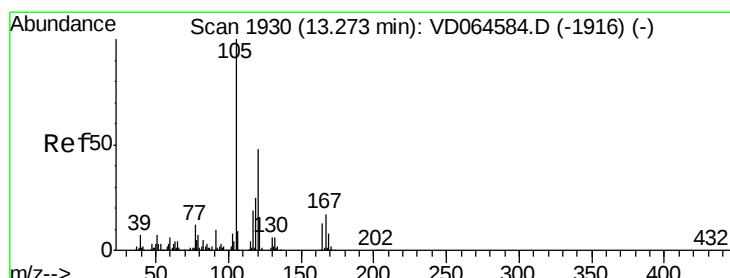
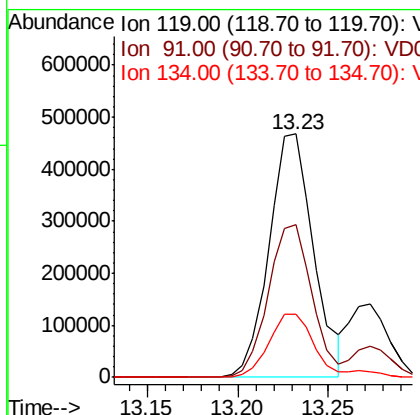
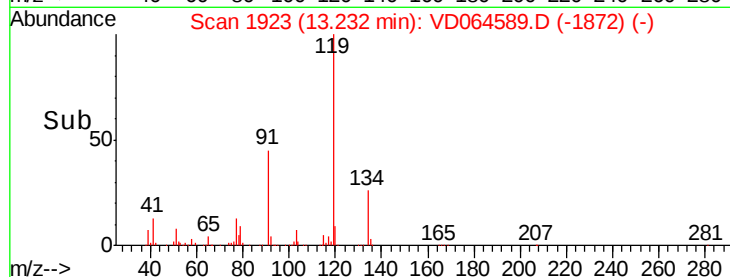
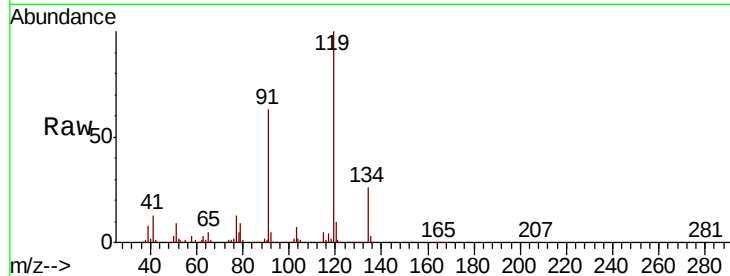
#83
tert-Butylbenzene
Concen: 52.938 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.9	30.8	92.4
134	28.0	12.8	38.3

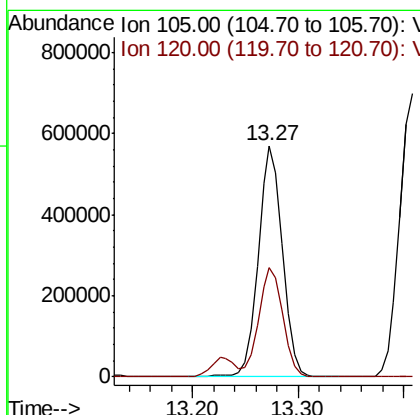
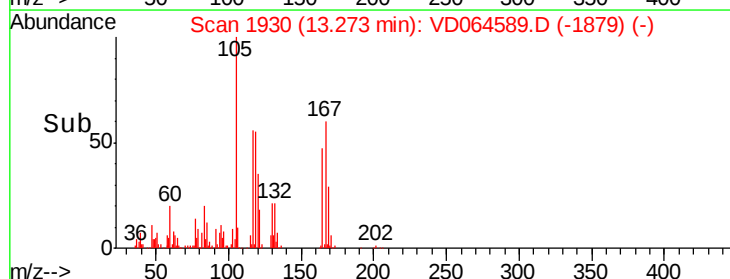
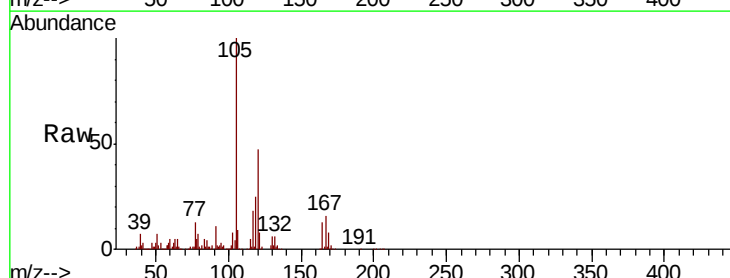
Manual Integrations
APPROVED

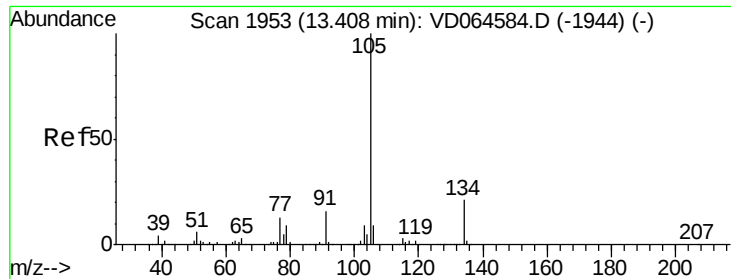
apatel
12/27/2019 2:06:55 PM



#84
1,2,4-Trimethylbenzene
Concen: 52.131 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.8	71.2





#85

sec-Butylbenzene

Concen: 53.291 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1104480

Ion Ratio Lower Upper

105 100

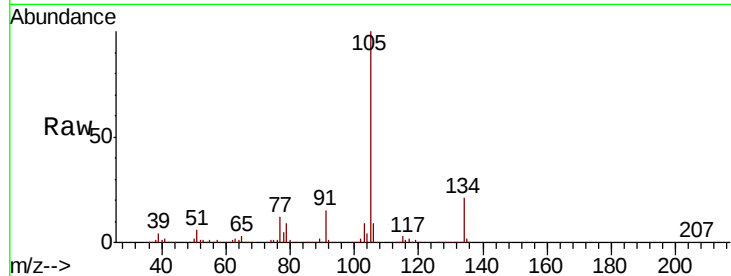
134 20.9 10.6 31.8

Manual Integrations

APPROVED

apatel

12/27/2019 2:06:55 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

800000

600000

400000

200000

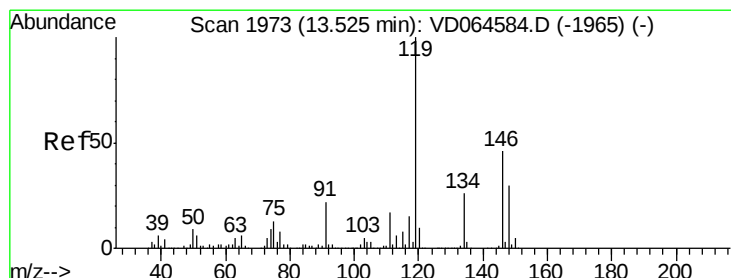
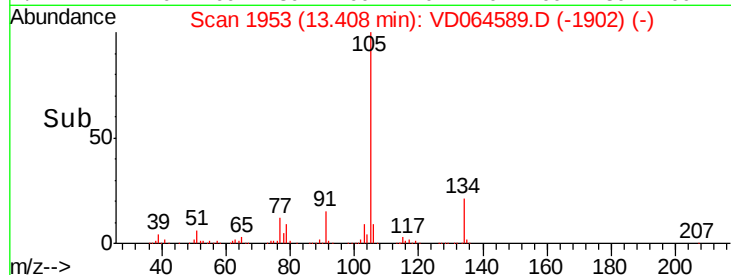
0

13.41

13.40

13.50

Time-->



#86

p-Isopropyltoluene

Concen: 53.095 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

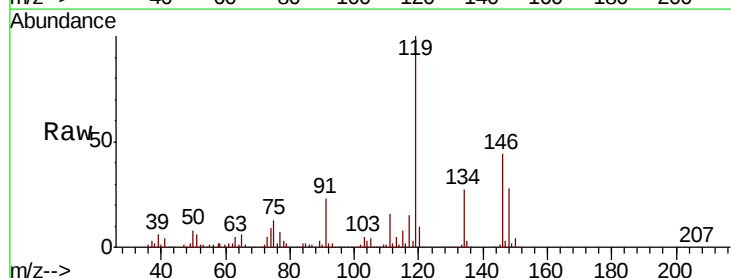
Tgt Ion:119 Resp: 1052193

Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.1

91 22.7 11.2 33.6



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

800000

600000

400000

200000

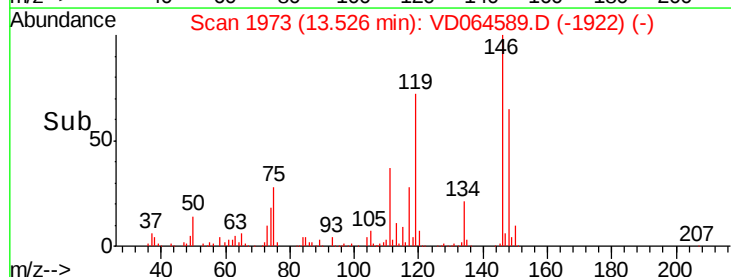
0

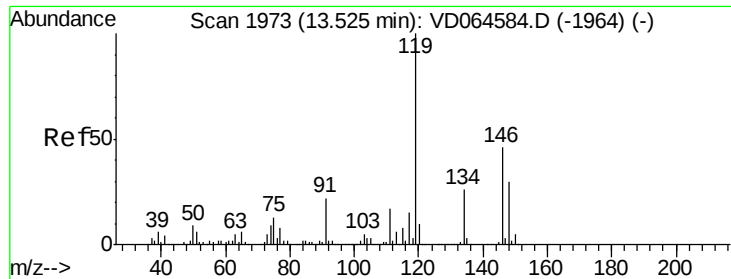
13.53

13.50

13.60

Time-->





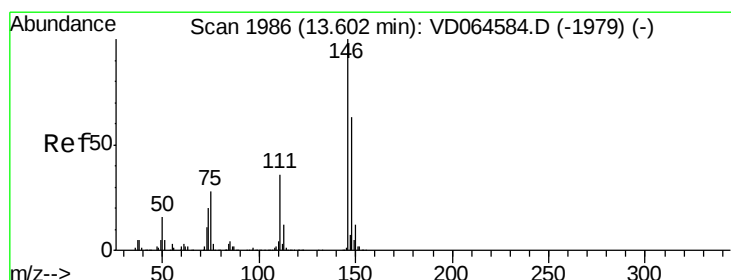
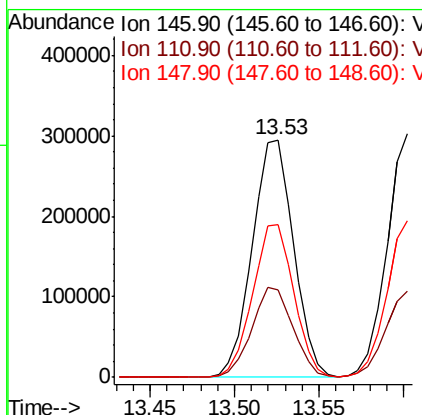
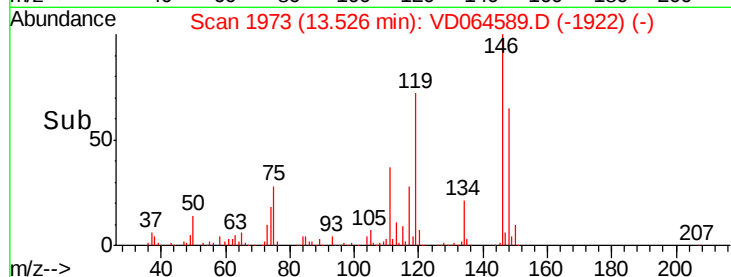
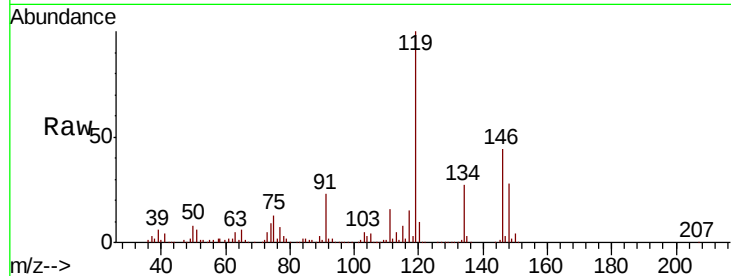
#87
 1,3-Dichlorobenzene
 Concen: 50.489 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.4
148	64.0	32.5	97.5

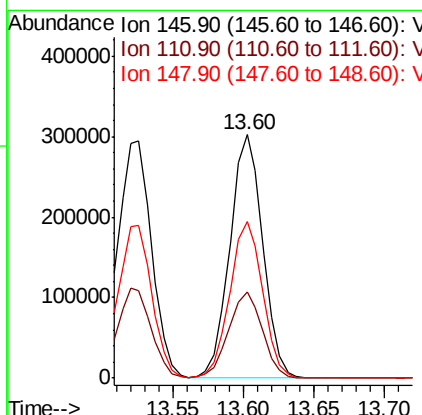
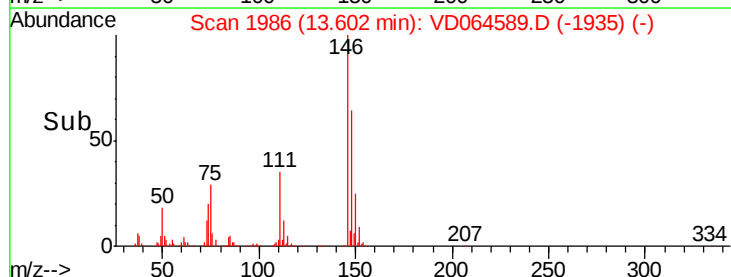
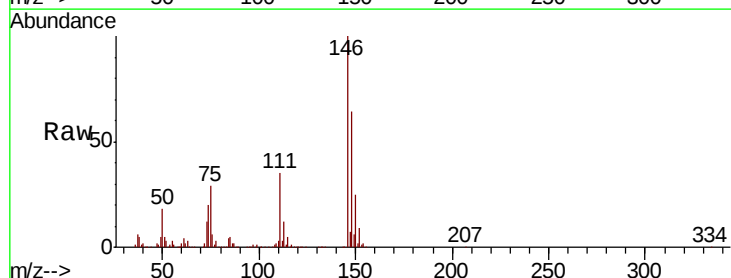
Manual Integrations
 APPROVED

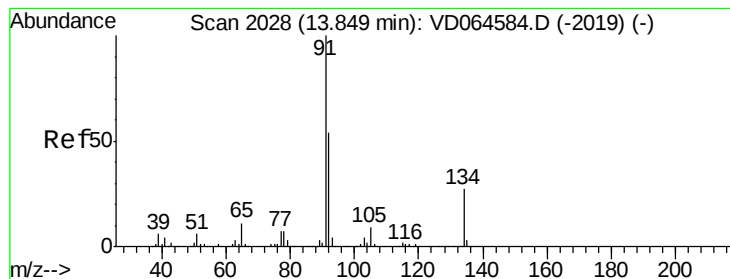
apatel
 12/27/2019 2:06:55 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.197 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064589.D
 Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.1	54.1
148	64.2	32.3	96.9





#89

n-Butylbenzene

Concen: 53.451 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

Instrument :

MSVOA_D

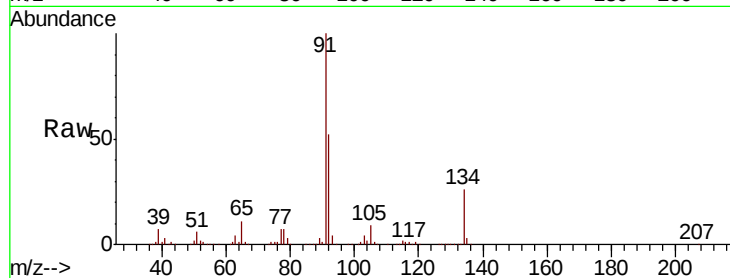
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	953902
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.8	80.4
134	27.2	14.0	41.9

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

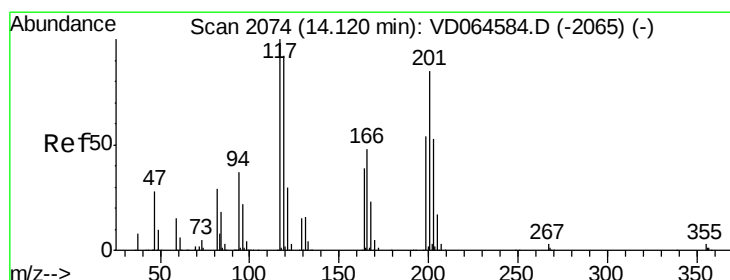
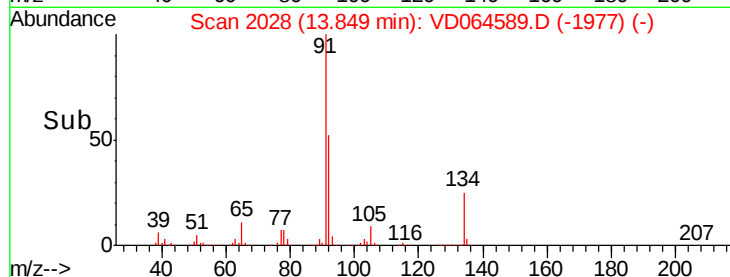
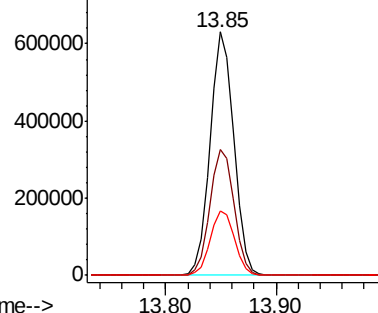


Abundance

Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#90

Hexachloroethane

Concen: 50.994 ug/l

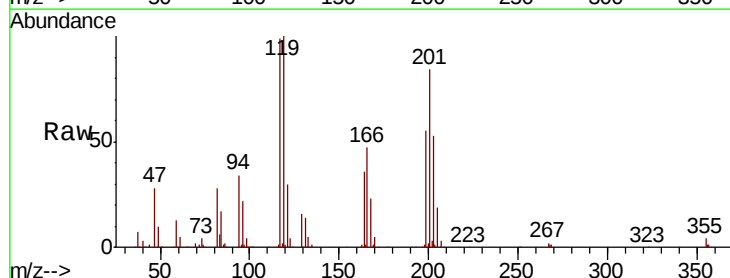
RT: 14.12 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VD064589.D

Acq: 26 Dec 2019 10:03

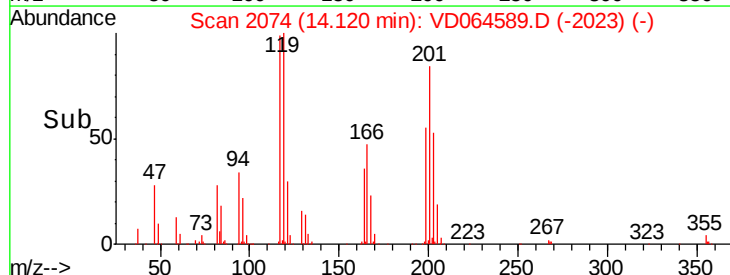
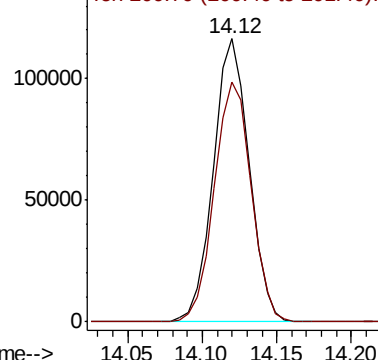
Tgt Ion:	117	Resp:	193038
Ion	Ratio	Lower	Upper
117	100		
201	87.4	44.0	131.8

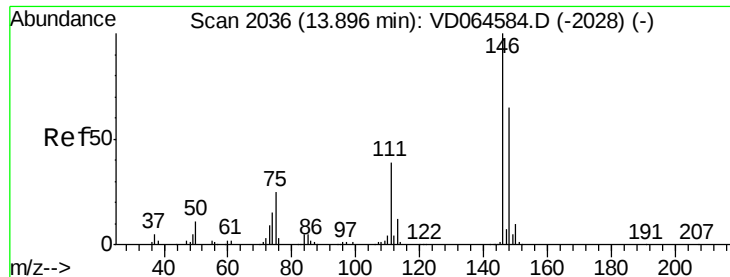


Abundance

Ion 116.80 (116.50 to 117.50): VDC

Ion 200.70 (200.40 to 201.40): VDC





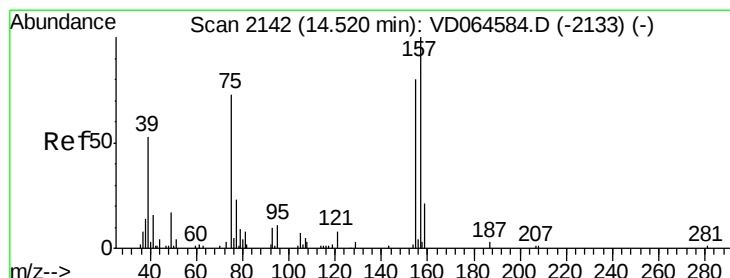
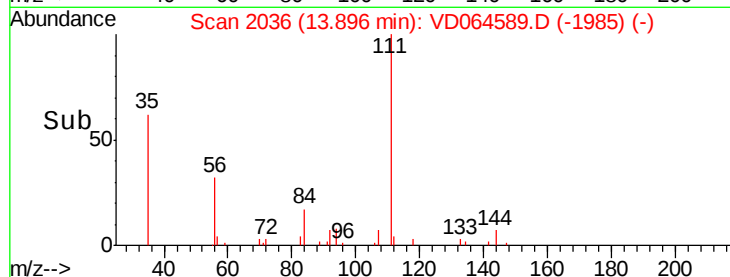
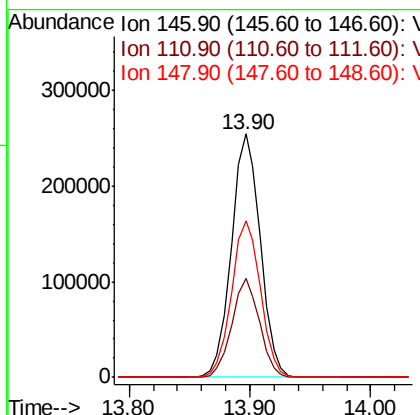
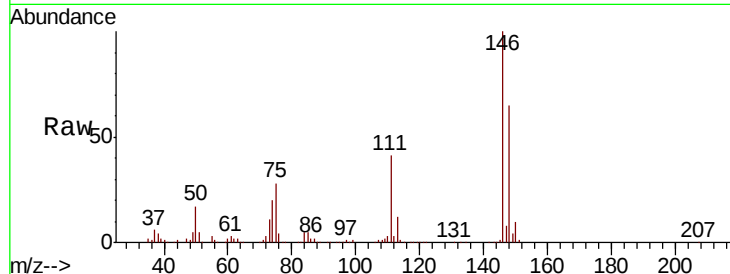
#91
1,2-Dichlorobenzene
Concen: 49.957 ug/l
RT: 13.90 min Scan# 2036
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.3	57.9
148	64.7	31.9	95.5

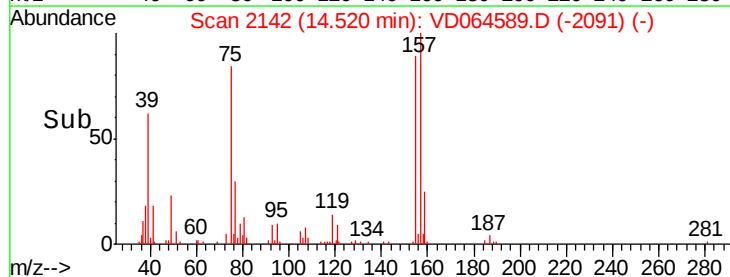
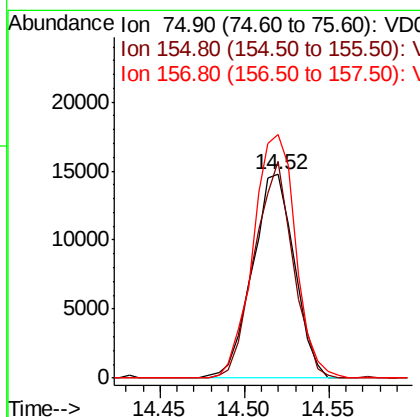
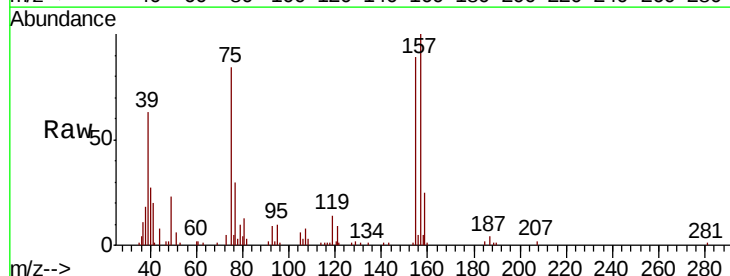
Manual Integrations
APPROVED

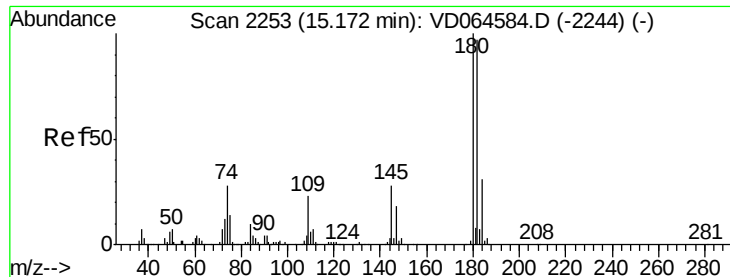
apatel
12/27/2019 2:06:55 PM



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.449 ug/l
RT: 14.52 min Scan# 2142
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.5	48.0	144.0
157	120.6	64.1	192.3





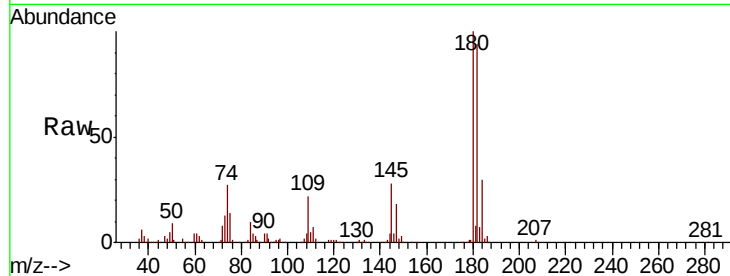
#93
1,2,4-Trichlorobenzene
Concen: 50.371 ug/l
RT: 15.17 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	313996		
182	95.4	48.0	144.2	
145	28.2	13.8	41.4	

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM

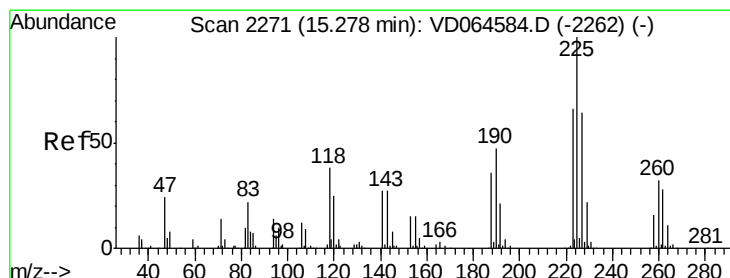
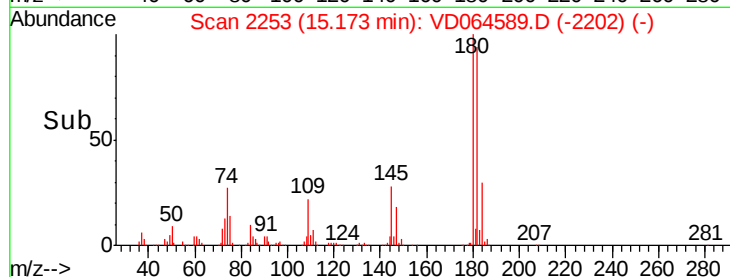
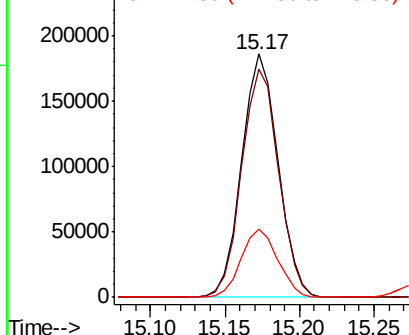


Abundance

Ion 179.80 (179.50 to 180.50): V

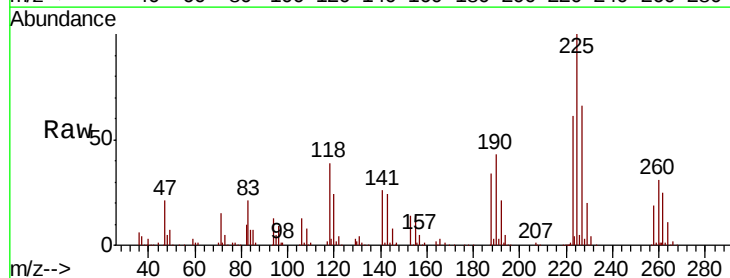
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
Hexachlorobutadiene
Concen: 51.676 ug/l
RT: 15.28 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	202710		
223	61.4	31.1	93.2	
227	63.7	30.9	92.7	

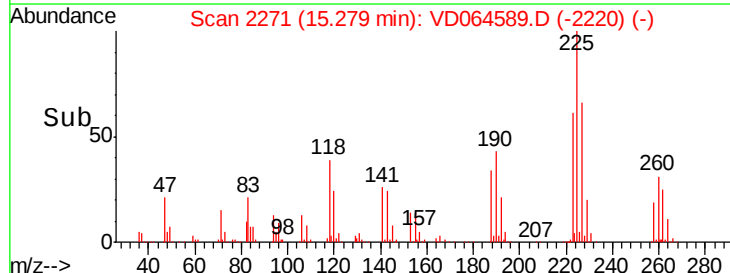
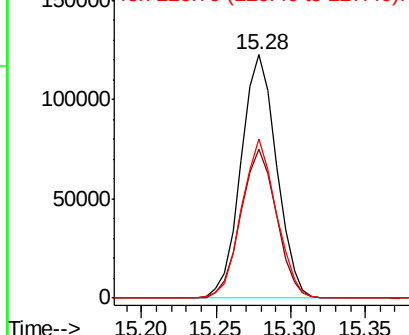


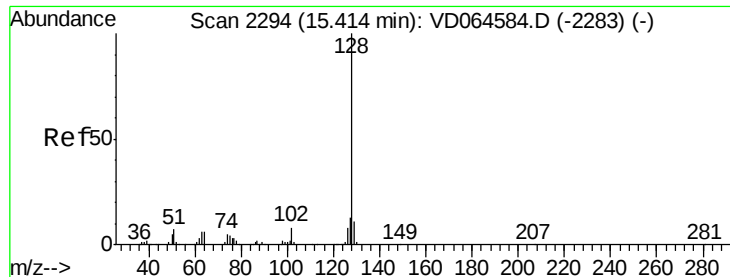
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





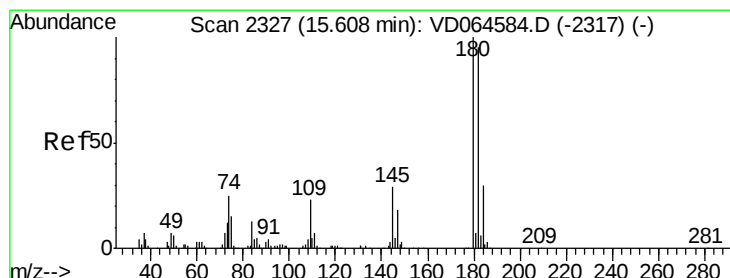
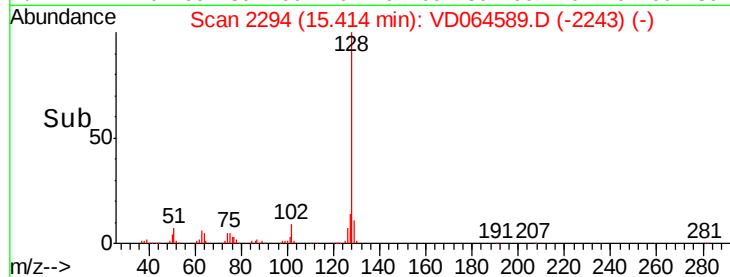
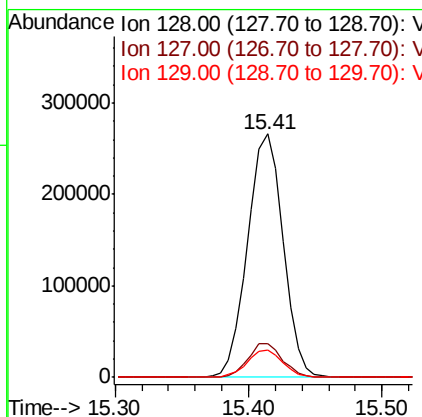
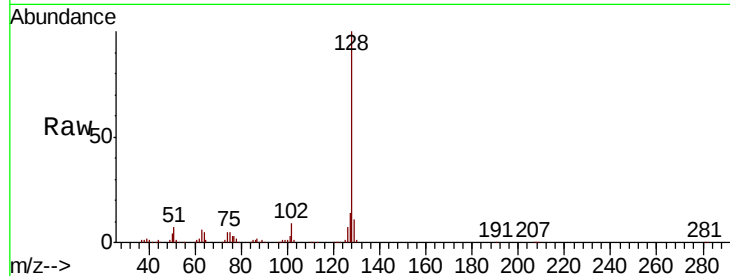
#95
Naphthalene
Concen: 49.753 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.3	15.5
129	11.3	8.5	12.7

Manual Integrations
APPROVED

apatel
12/27/2019 2:06:55 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.477 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064589.D
Acq: 26 Dec 2019 10:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.7
145	29.6	14.9	44.7

