

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX081420\
 Data File : VX017897.D
 Acq On : 14 Aug 2020 14:04
 Operator : JC/SP
 Sample : L3697-02
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0M9

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 8:09:10 AM

Quant Time: Aug 17 03:08:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 17 01:26:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.84	114	292051	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	267608	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	147571	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	94157	4.66	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.20%
7) Chloroethane-d5	1.69	69	77943	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.40%
11) 1,1-Dichloroethene-d2	2.34	63	146103	3.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.40%
20) 2-Butanone-d5	4.54	46	238717	44.54	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.08%
24) Chloroform-d	5.14	84	188317	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	6.04	65	105098	4.67	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	6.06	84	367017	5.00	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
36) 1,2-Dichloropropane-d6	7.37	67	110172	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	8.70	98	339374	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
45) trans-1,3-Dichloropropene-	8.99	79	46517	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
48) 2-Hexanone-d5	9.43	63	194771	47.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.30%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	85302	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.80%
65) 1,2-Dichlorobenzene-d4	12.36	152	143141	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.31	50	3126	0.113	ug/L #	72
5) Vinyl chloride	1.39	62	172073	6.256	ug/L	93
8) Chloroethane	1.72	64	416924	27.098	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	4737	0.196	ug/L #	82
13) Acetone	2.44	43	151033	38.571	ug/L	98
14) Carbon disulfide	2.55	76	23827	0.296	ug/L	96
18) trans-1,2-Dichloroethene	3.14	96	7408	0.292	ug/L	85
19) 1,1-Dichloroethane	3.67	63	90953	2.007	ug/L	97
21) 2-Butanone	4.65	43	44790	6.623	ug/L	99
22) cis-1,2-Dichloroethene	4.56	96	803139	30.133	ug/L #	98
29) 1,1,1-Trichloroethane	5.47	97	5335	0.122	ug/L #	77
30) Cyclohexane	5.55	56	110446	2.900	ug/L	97
33) Benzene	6.10	78	34289358m	361.935	ug/L	
35) Methylcyclohexane	7.44	83	116967	3.009	ug/L	97
40) 4-Methyl-2-pentanone	8.63	43	99705	6.428	ug/L	99
42) Toluene	8.76	91	26627648m	258.913	ug/L	
49) Tetrachloroethene	9.32	164	3750	0.169	ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081420\
 Data File : VX017897.D
 Acq On : 14 Aug 2020 14:04
 Operator : JC/SP
 Sample : L3697-02
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0M9

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 8:09:10 AM

Quant Time: Aug 17 03:08:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 17 01:26:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Chlorobenzene	10.12	112	8334839	124.509	ug/L	96
54) Ethylbenzene	10.24	91	12735144	113.469	ug/L	83
55) m,p-xylene	10.35	106	12743990m	297.378	ug/L	
56) o-xylene	10.68	106	4022861	96.820	ug/L	96
58) Isopropylbenzene	11.01	105	2498319	22.463	ug/L	99
63) 1,3-Dichlorobenzene	12.01	146	73015	1.270	ug/L	95
64) 1,4-Dichlorobenzene	12.08	146	418683	7.323	ug/L	96
66) 1,2-Dichlorobenzene	12.38	146	539840	10.113	ug/L	98
69) 1,2,4-trichlorobenzene	13.63	180	6869	0.183	ug/L #	74

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

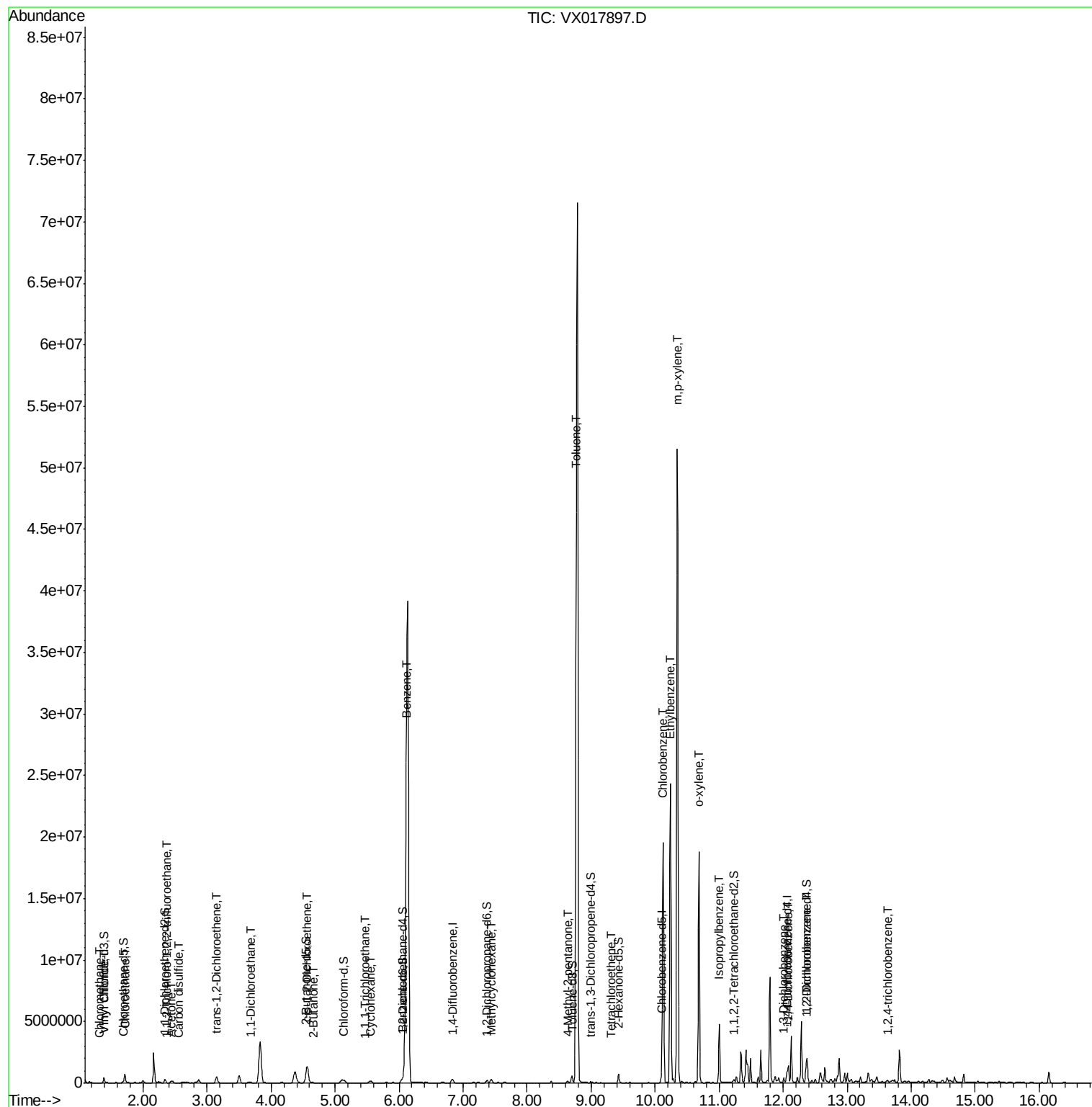
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081420\
Data File : VX017897.D
Acq On : 14 Aug 2020 14:04
Operator : JC/SP
Sample : L3697-02
Misc : 25.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

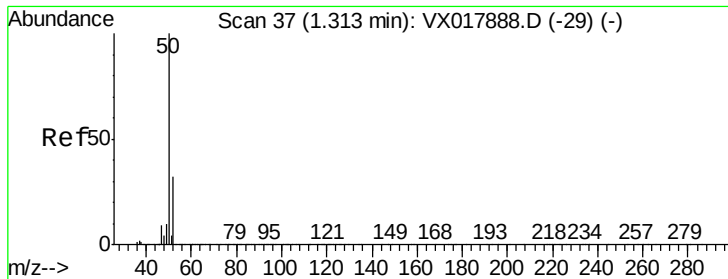
Instrument :
MSVOA_X
ClientSampleId :
BG0M9

Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM

Quant Time: Aug 17 03:08:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Aug 17 01:26:51 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.113 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

ClientSampled :

BG0M9

Tot Ion: 50 Resp: 3126

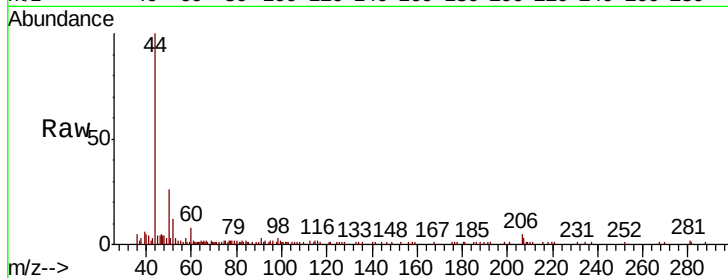
Ion Ratio Lower Upper

50 100

52 47.8 22.5 41.9#

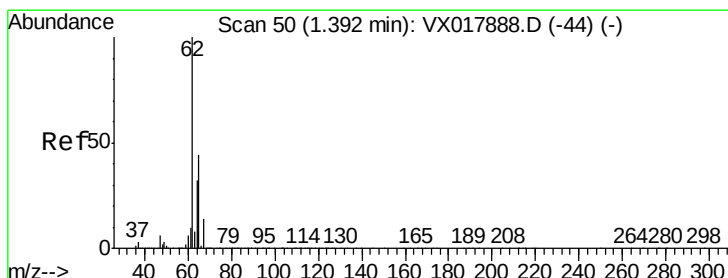
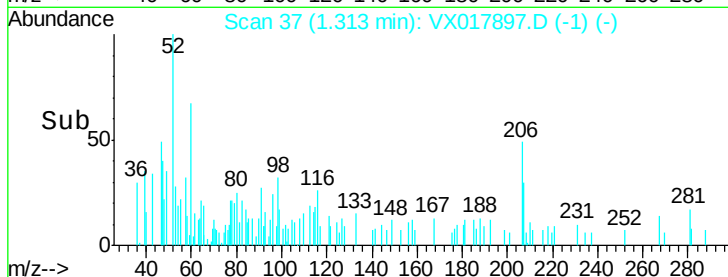
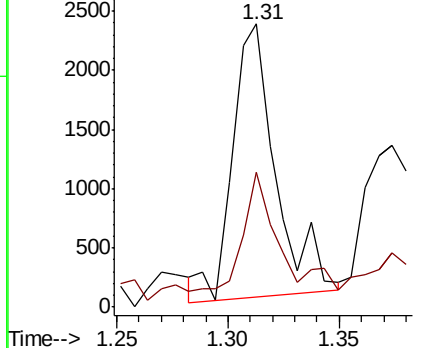
Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM



Abundance Ion 50.05 (49.75 to 50.75): VX0

Ion 52.05 (51.75 to 52.75): VX0



#5

Vinyl chloride

Concen: 6.256 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX017897.D

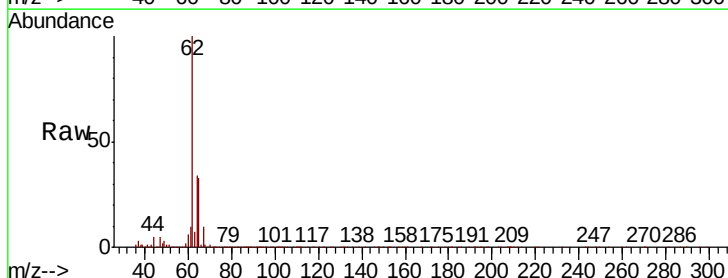
Acq: 14 Aug 2020 14:04

Tgt Ion: 62 Resp: 172073

Ion Ratio Lower Upper

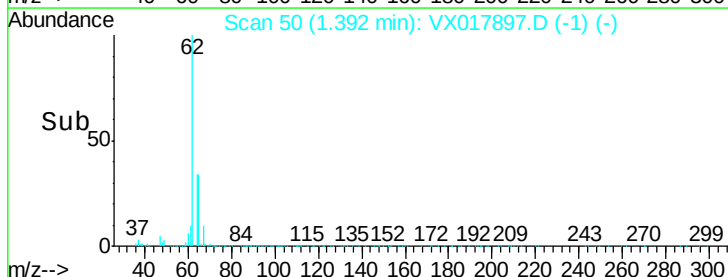
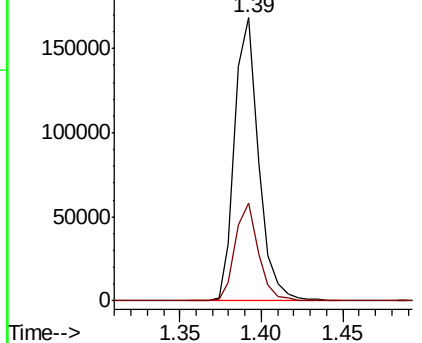
62 100

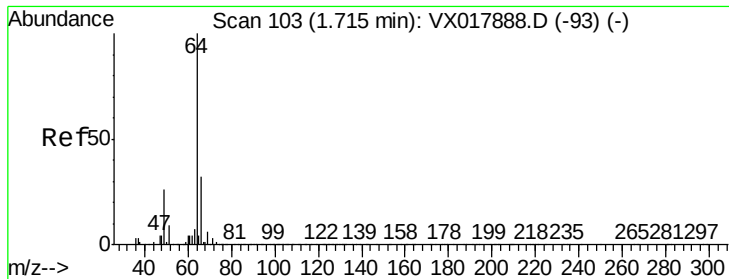
64 34.5 21.3 39.6



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0





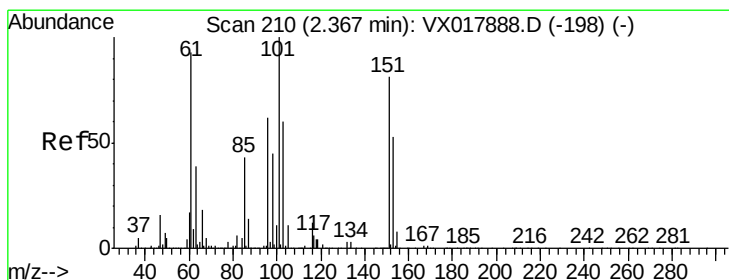
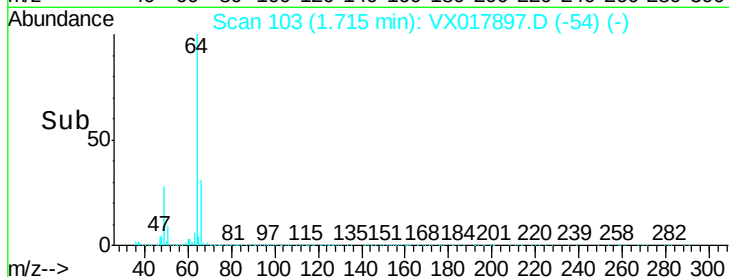
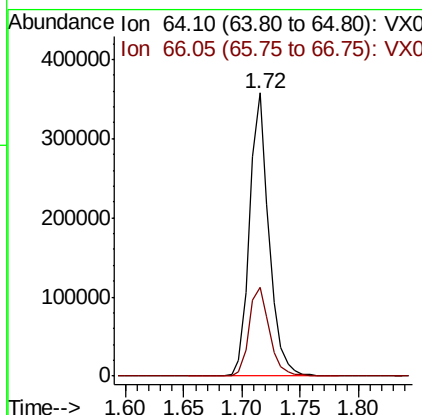
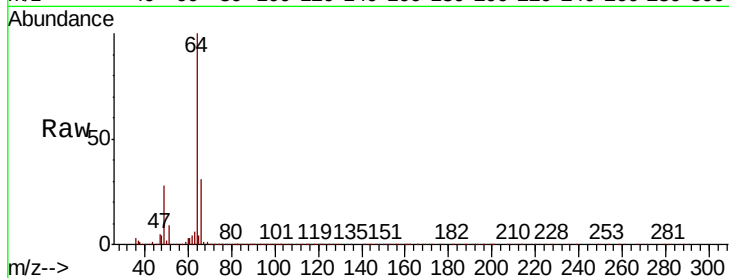
#8
Chloroethane
Concen: 27.098 ug/L
RT: 1.72 min Scan# 103
Delta R.T. 0.00 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Instrument :
MSVOA_X
ClientSampleId :
BG0M9

Tot Ion	Ratio	Lower	Upper
64	100		
66	31.3	22.6	42.0

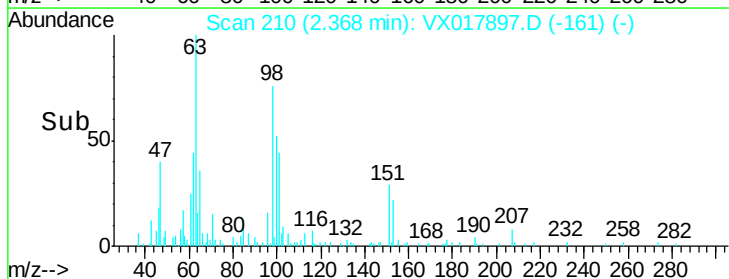
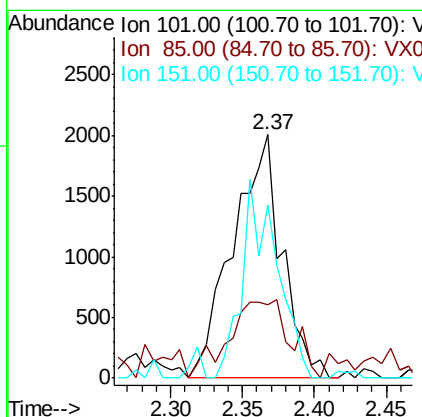
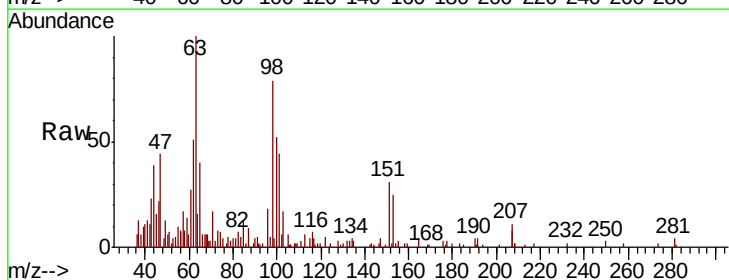
Manual Integrations
APPROVED

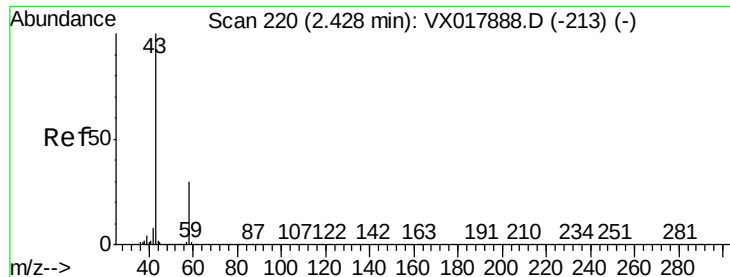
MMDadoda
8/17/2020 8:09:10 AM



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.196 ug/L
RT: 2.37 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Tgt Ion	Ratio	Lower	Upper
101	100		
85	40.2	34.3	51.5
151	57.9	64.8	97.2





#13

Acetone

Concen: 38.571 ug/L

RT: 2.44 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

ClientSampleId :

BG0M9

Tot Ion: 43 Resp: 151033

Ion Ratio Lower Upper

43 100

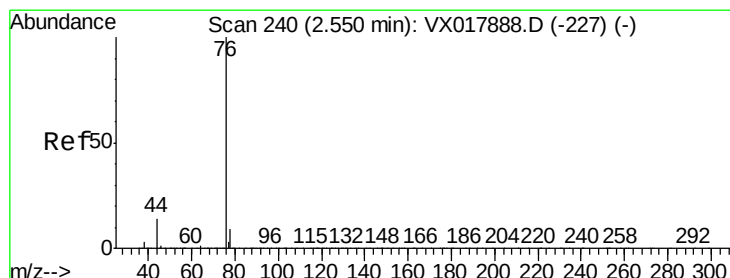
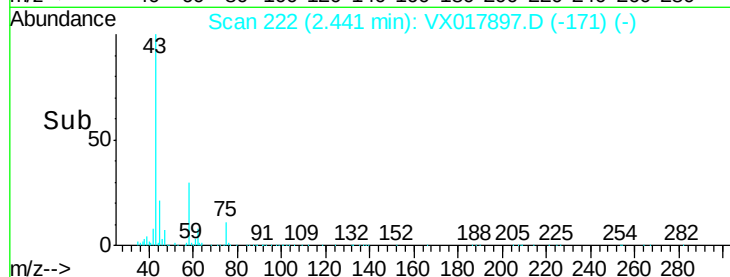
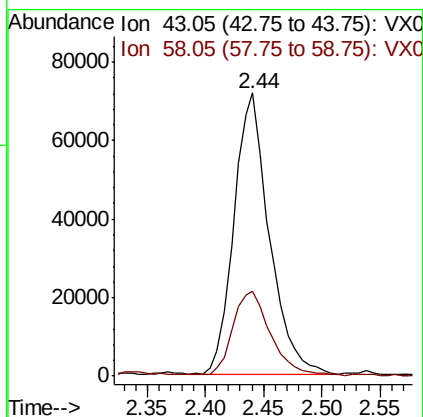
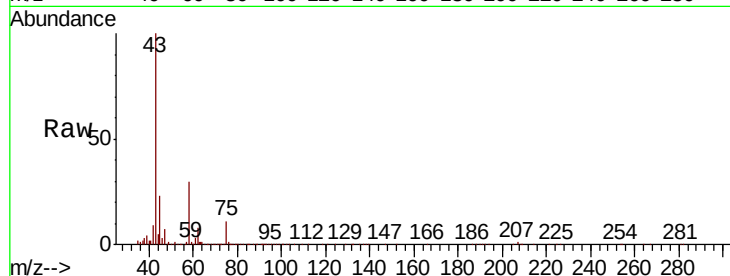
58 31.7 0.0 60.8

Manual Integrations

APPROVED

MMDadoda

8/17/2020 8:09:10 AM



#14

Carbon disulfide

Concen: 0.296 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017897.D

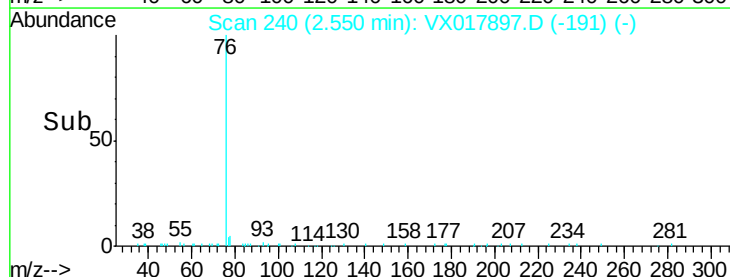
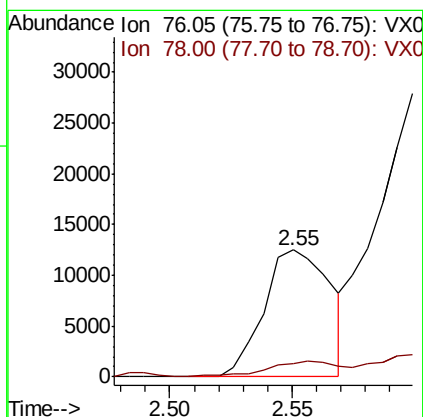
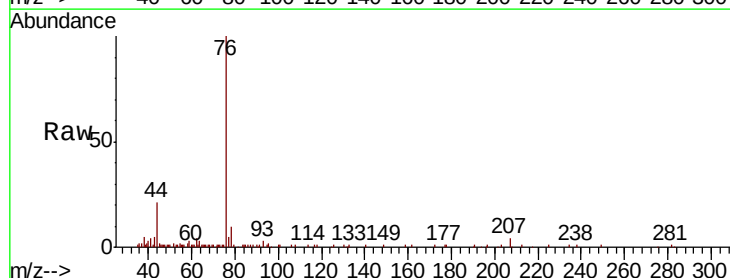
Acq: 14 Aug 2020 14:04

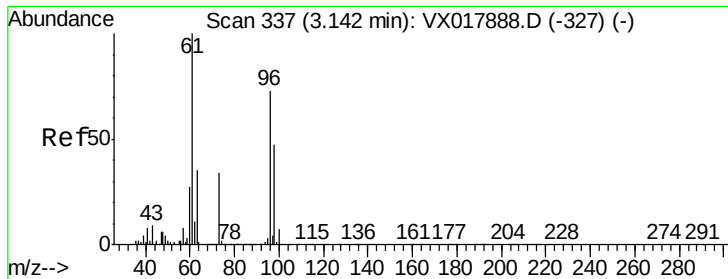
Tgt Ion: 76 Resp: 23827

Ion Ratio Lower Upper

76 100

78 10.1 7.0 10.4





#18

trans-1,2-Dichloroethene

Concen: 0.292 ug/L

RT: 3.14 min Scan# 336

Delta R.T. -0.01 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

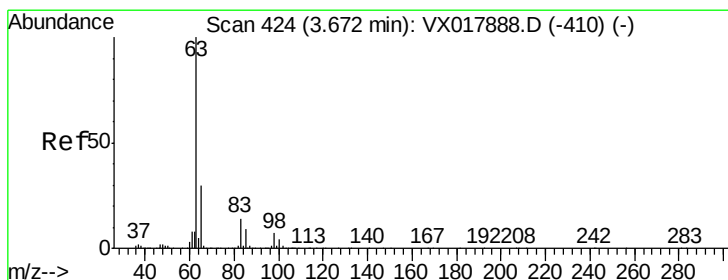
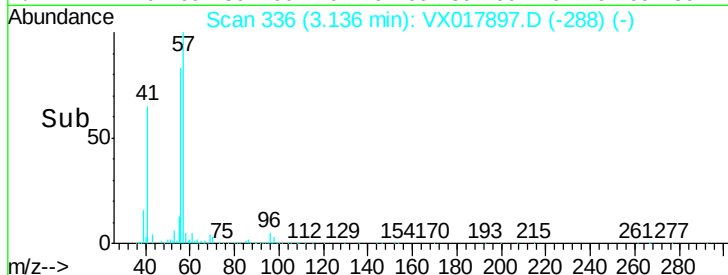
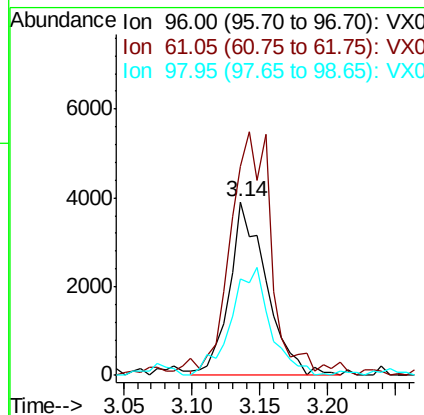
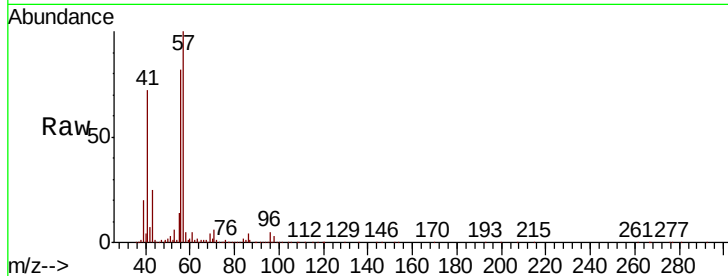
ClientSampleId :

BG0M9

Tot Ion:	96	Resp:	7408
Ion	Ratio	Lower	Upper
96	100		
61	120.3	98.4	182.8
98	55.7	44.9	83.5

Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM



#19

1,1-Dichloroethane

Concen: 2.007 ug/L

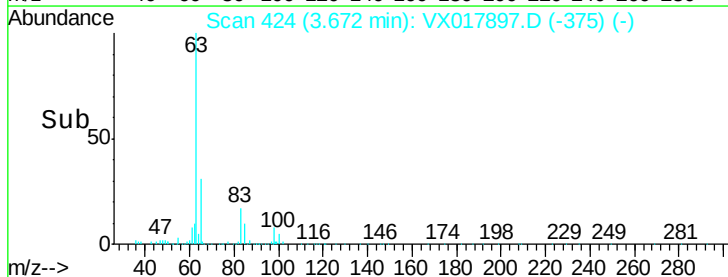
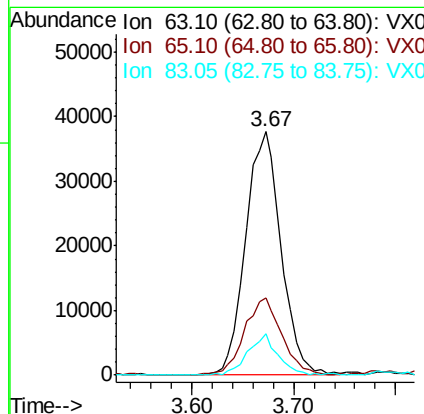
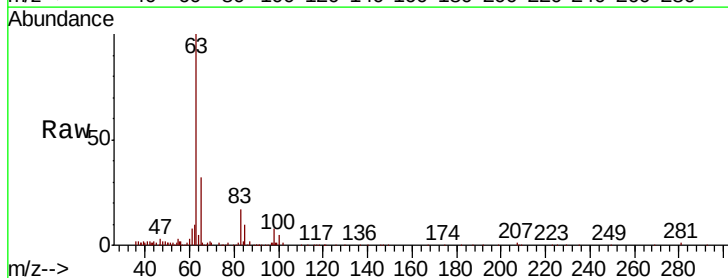
RT: 3.67 min Scan# 424

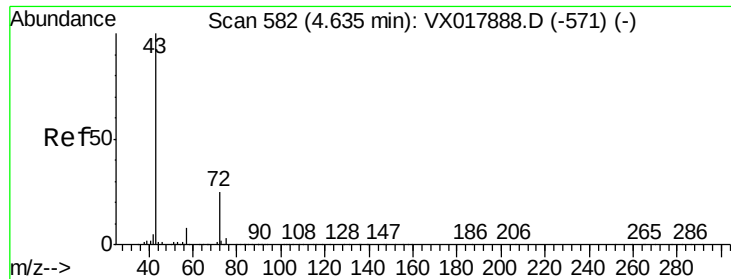
Delta R.T. 0.00 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Tgt Ion:	63	Resp:	90953
Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.6	42.0
83	17.1	9.5	17.7





#21

2-Butanone

Concen: 6.623 ug/L

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

ClientSampleId :

BG0M9

Tot Ion: 43 Resp: 44790

Ion Ratio Lower Upper

43 100

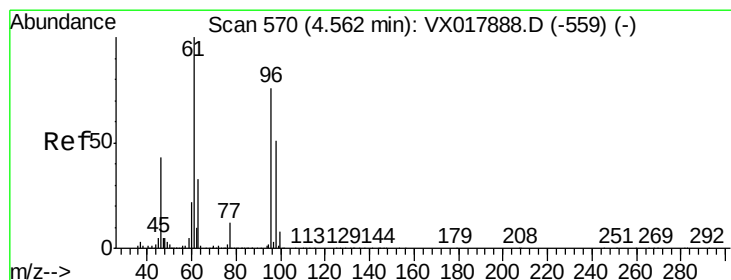
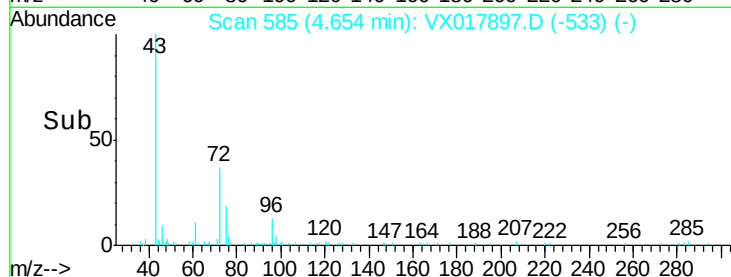
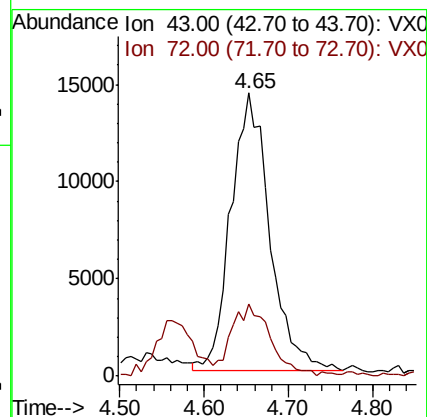
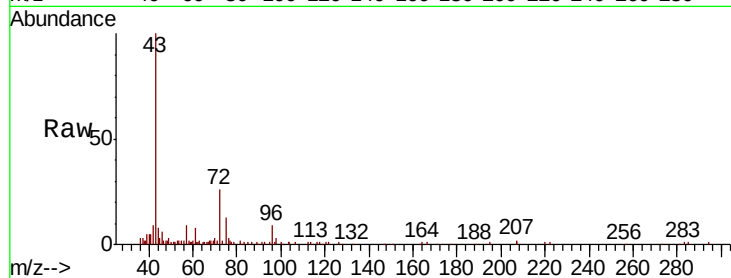
72 26.1 13.2 39.6

Manual Integrations

APPROVED

MMDadoda

8/17/2020 8:09:10 AM



#22

cis-1,2-Dichloroethene

Concen: 30.133 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

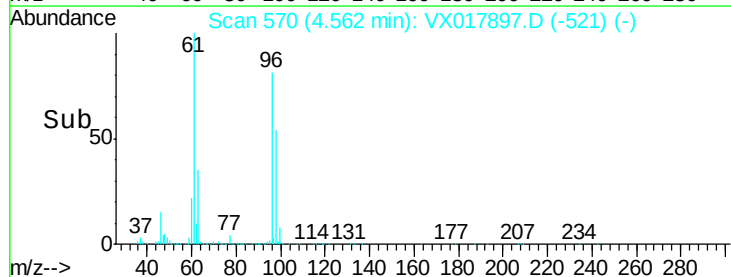
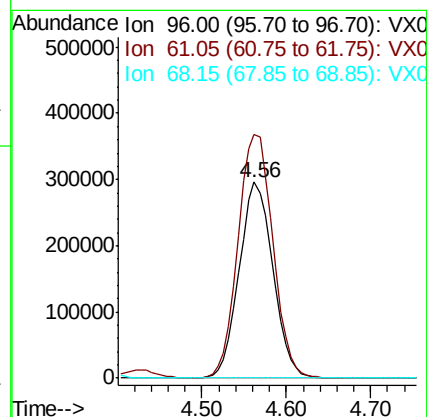
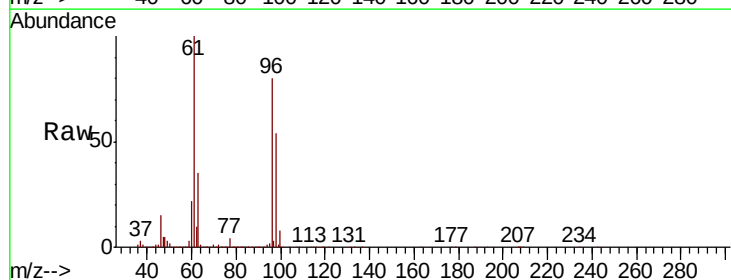
Tgt Ion: 96 Resp: 803139

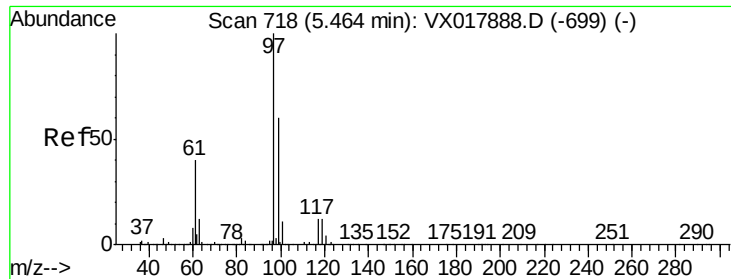
Ion Ratio Lower Upper

96 100

61 124.3 88.8 165.0

68 0.1 0.2 0.4#





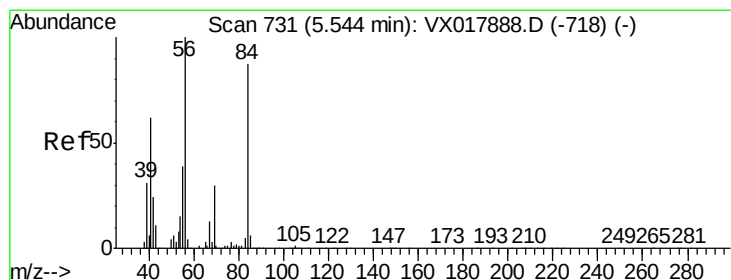
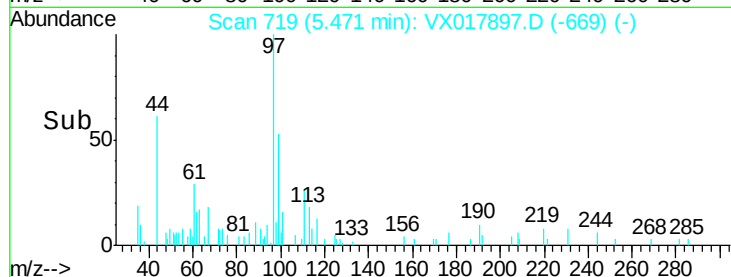
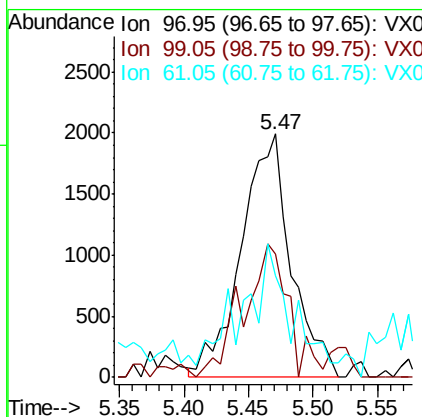
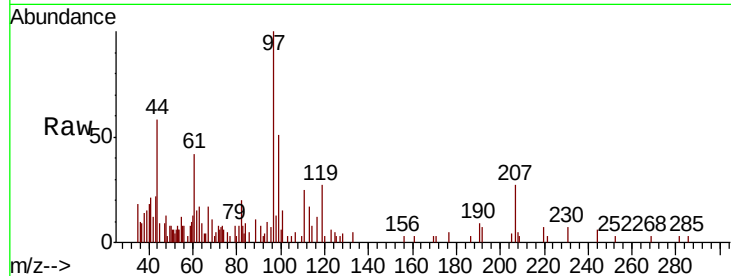
#29
 1,1,1-Trichloroethane
 Concen: 0.122 ug/L
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Instrument :
 MSVOA_X
 ClientSampled :
 BG0M9

Tot Ion	Ratio	Lower	Upper
97	100		
99	37.3	52.2	78.2#
61	38.9	33.8	50.6

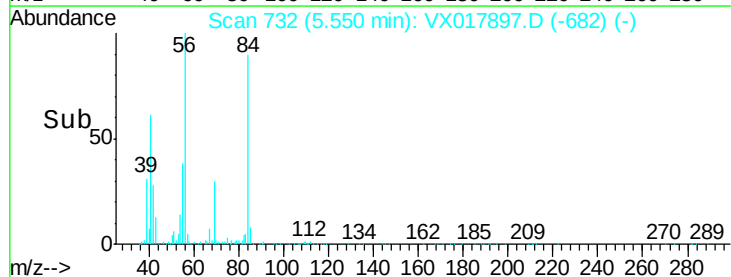
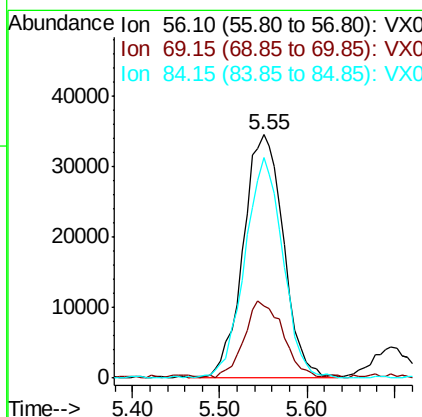
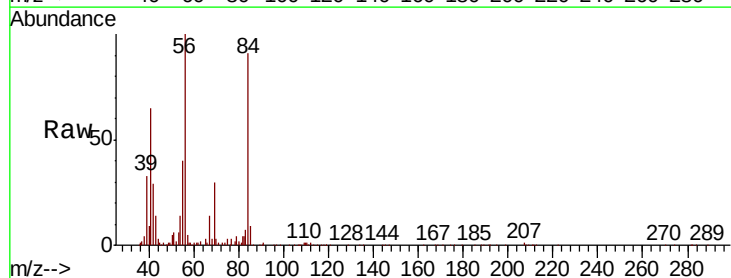
Manual Integrations
 APPROVED

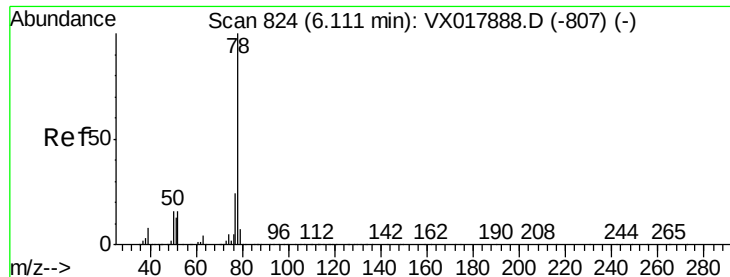
MMDadoda
 8/17/2020 8:09:10 AM



#30
 Cyclohexane
 Concen: 2.900 ug/L
 RT: 5.55 min Scan# 732
 Delta R.T. 0.01 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.1	25.1	37.7
84	86.0	70.7	106.1





#33

Benzene

Concen: 361.935 ug/L m

RT: 6.10 min Scan# 823

Delta R.T. -0.01 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

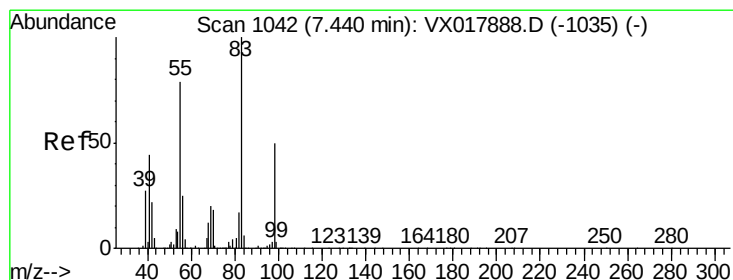
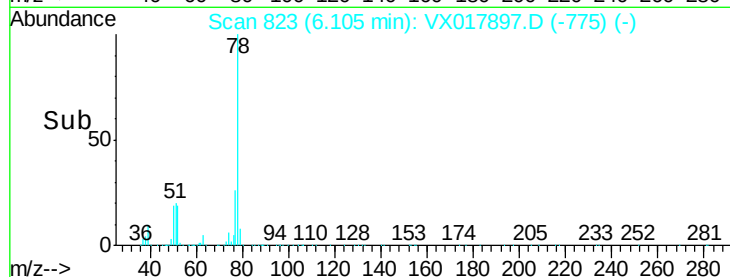
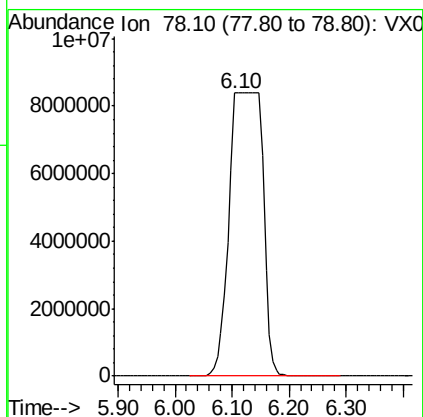
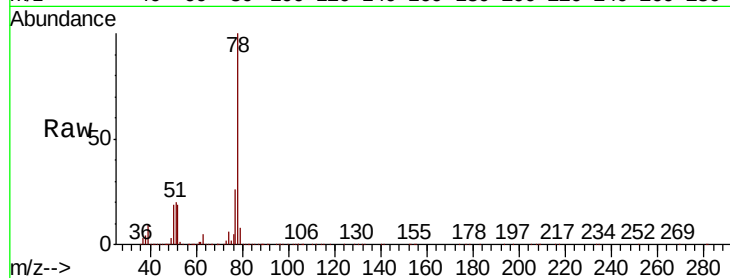
ClientSampleId :

BG0M9

Tgt Ion: 78 Resp:34289358

Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM



#35

Methylcyclohexane

Concen: 3.009 ug/L

RT: 7.44 min Scan# 1042

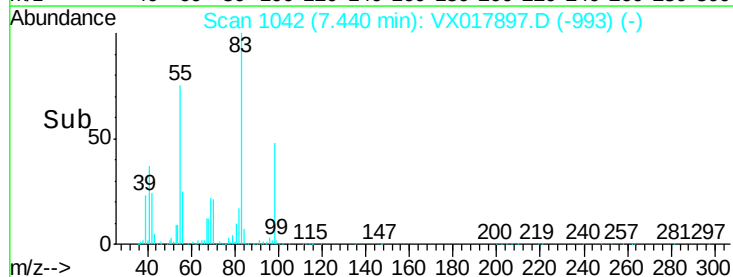
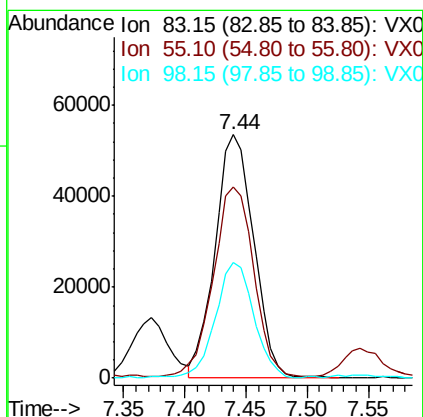
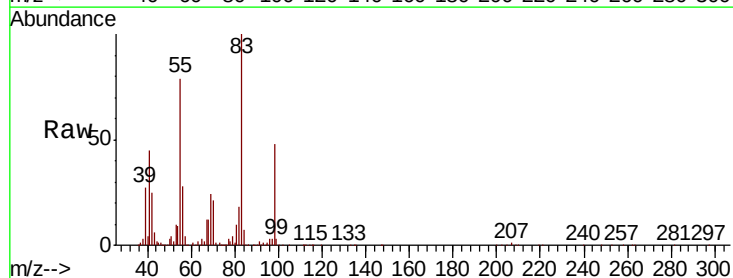
Delta R.T. 0.00 min

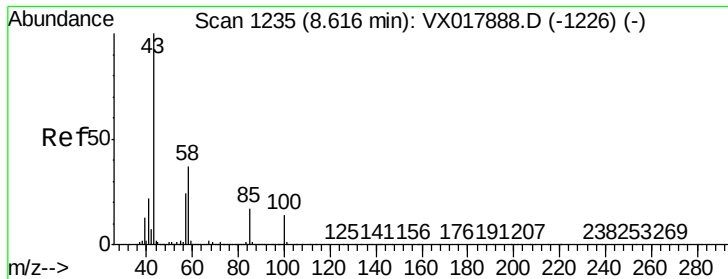
Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Tgt Ion: 83 Resp: 116967

Ion	Ratio	Lower	Upper
83	100		
55	81.6	62.4	93.6
98	47.2	38.0	57.0





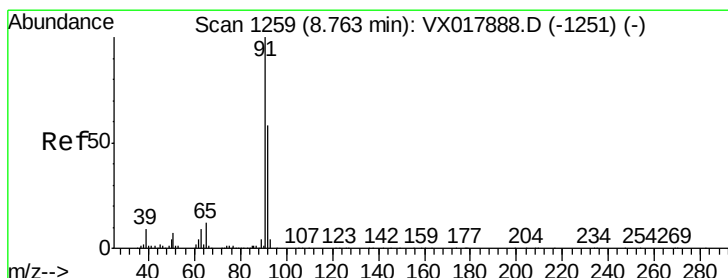
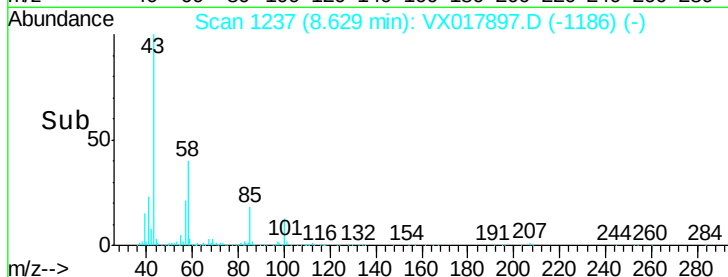
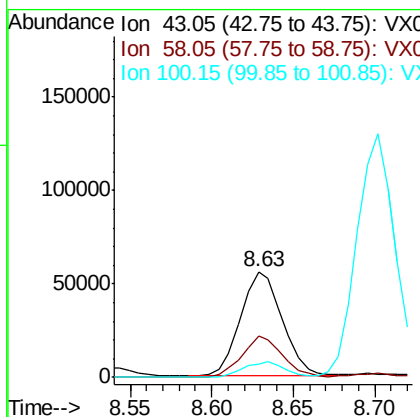
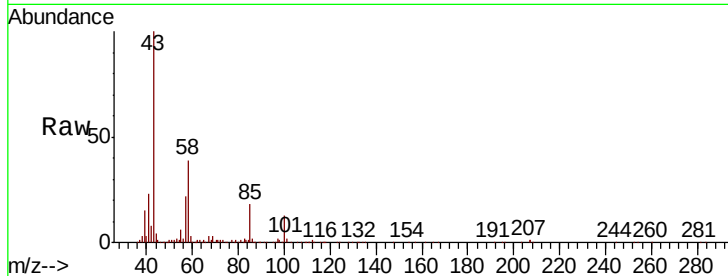
#40
4-Methyl-2-pentanone
Concen: 6.428 ug/L
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Instrument :
MSVOA_X
ClientSampleId :
BG0M9

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.8	31.1	46.7
100	15.1	12.2	18.4

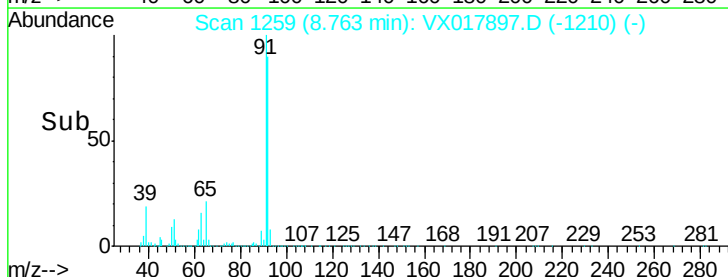
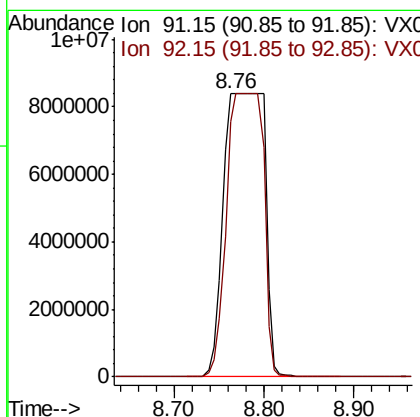
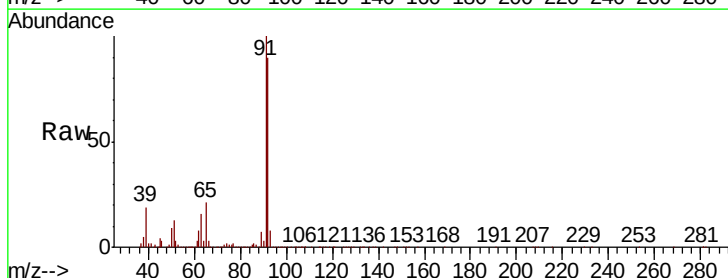
Manual Integrations
APPROVED

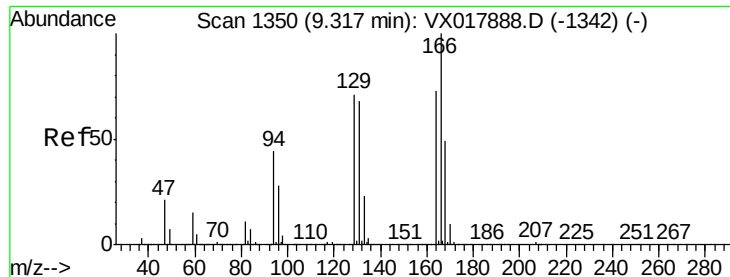
MMDadoda
8/17/2020 8:09:10 AM



#42
Toluene
Concen: 258.913 ug/L m
RT: 8.76 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	90.1	38.8	72.0





#49

Tetrachloroethene

Concen: 0.169 ug/L

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

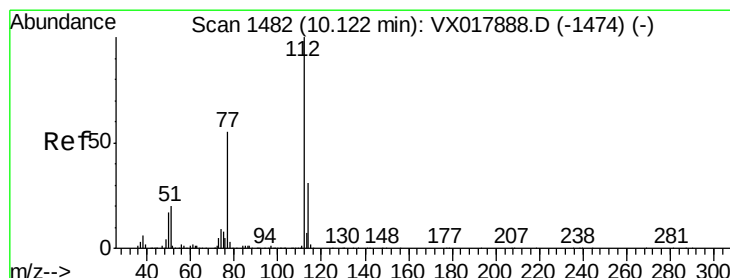
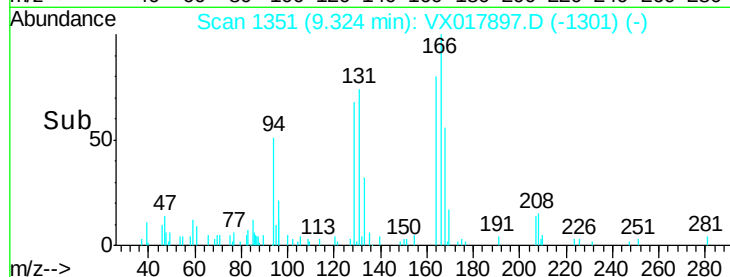
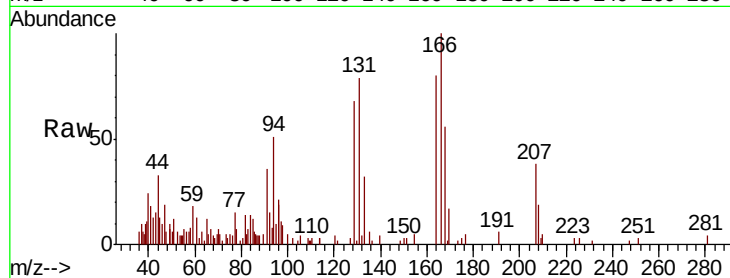
ClientSampled :

BG0M9

Tot Ion	Ratio	Lower	Upper
164	100		
129	84.3	67.4	125.2
131	98.5	65.3	121.3
166	124.5	87.2	161.9

Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM



#53

Chlorobenzene

Concen: 124.509 ug/L

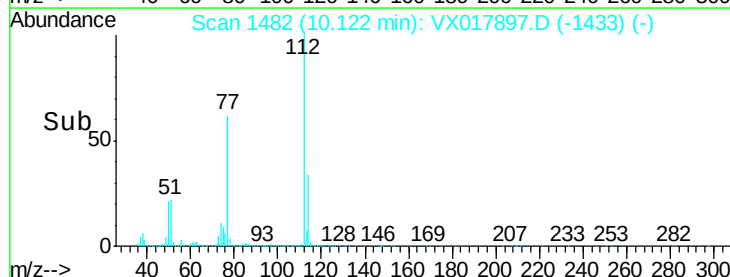
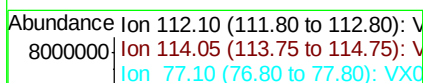
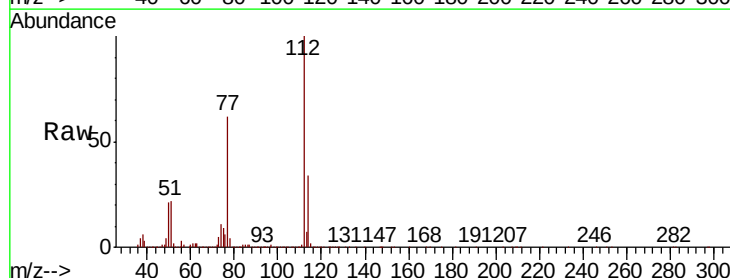
RT: 10.12 min Scan# 1482

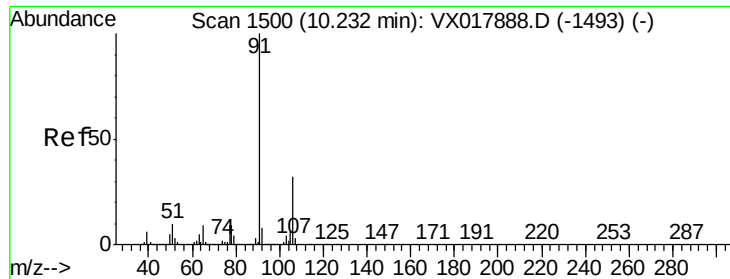
Delta R.T. 0.00 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.0	23.5	43.7
77	62.2	46.7	70.1





#54

Ethylbenzene

Concen: 113.469 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017897.D

Acq: 14 Aug 2020 14:04

Instrument :

MSVOA_X

ClientSampleId :

BG0M9

Tot Ion: 91 Resp:12735144

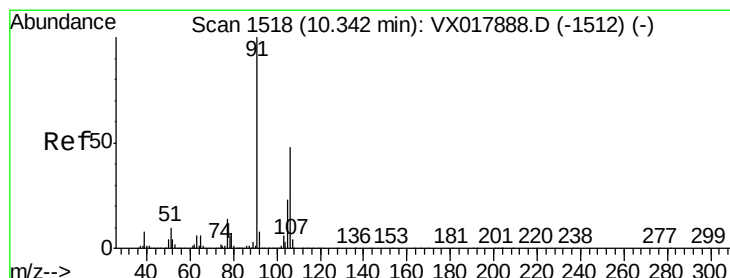
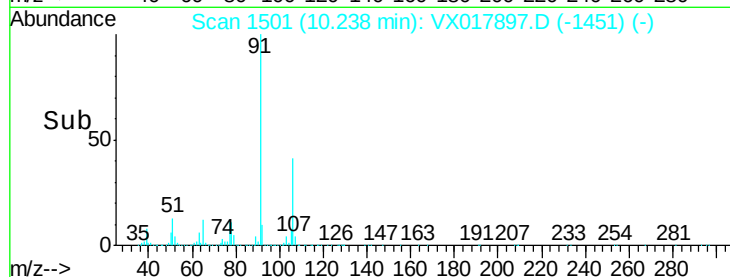
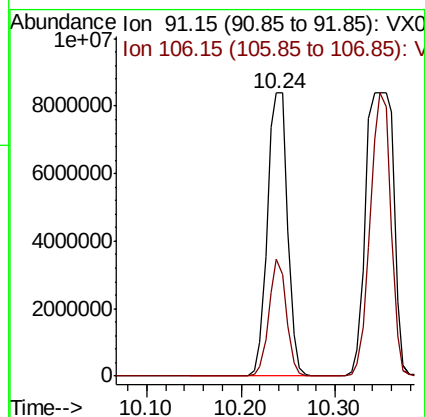
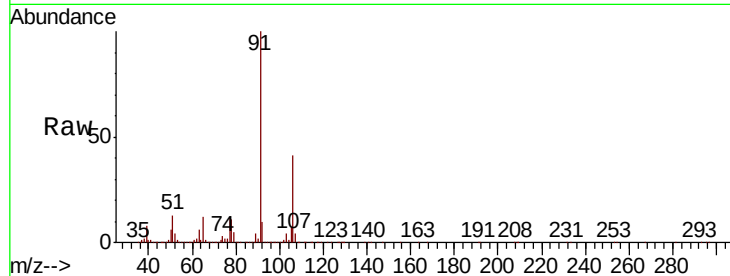
Ion Ratio Lower Upper

91 100

106 41.4 22.5 41.9

Manual Integrations
APPROVED

MMDadoda
8/17/2020 8:09:10 AM



#55

m,p-xylene

Concen: 297.378 ug/L m

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX017897.D

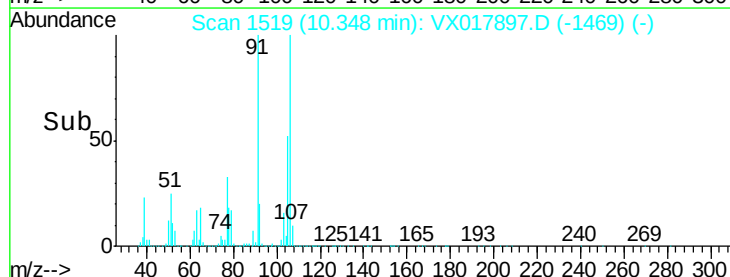
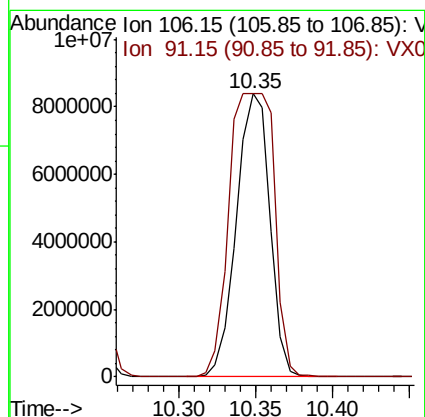
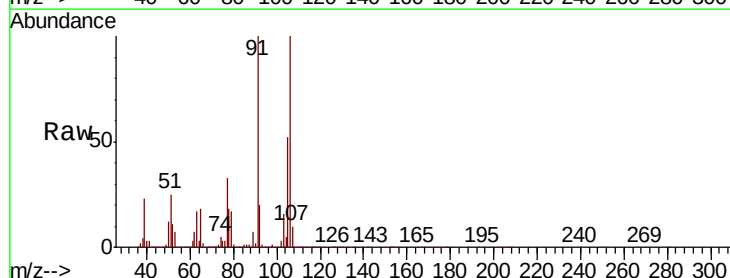
Acq: 14 Aug 2020 14:04

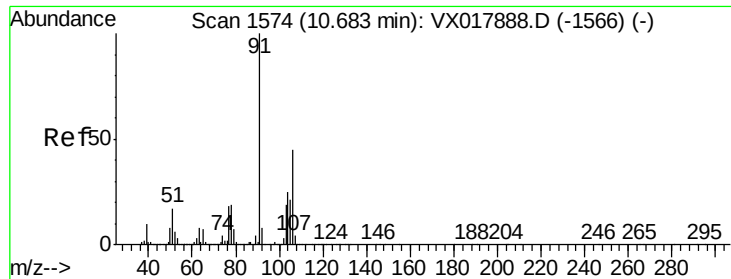
Tgt Ion:106 Resp:12743990

Ion Ratio Lower Upper

106 100

91 100.0 143.3 266.1#





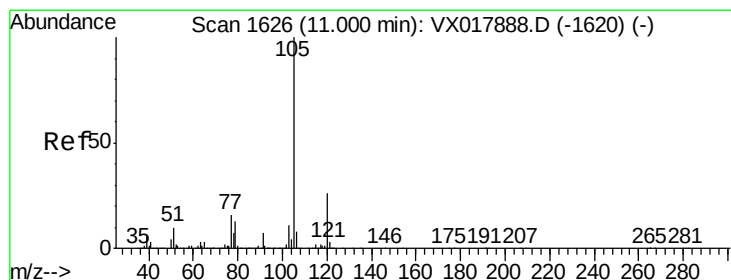
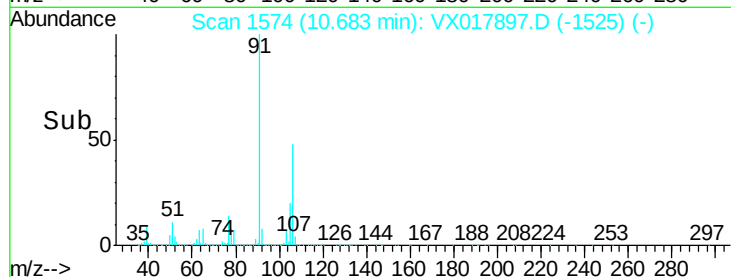
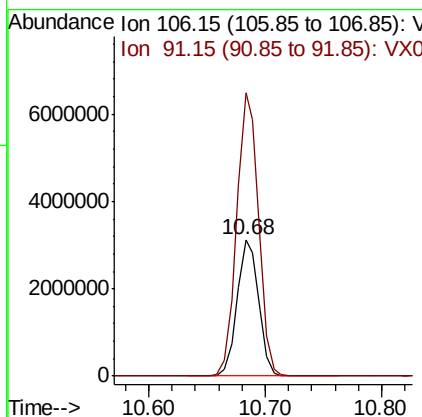
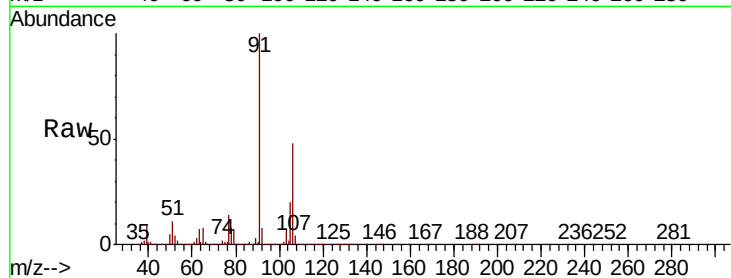
#56
o-xylene
Concen: 96.820 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Instrument :
MSVOA_X
ClientSampled :
BG0M9

Tot Ion:106 Resp: 4022861
Ion Ratio Lower Upper
106 100
91 207.6 149.8 278.2

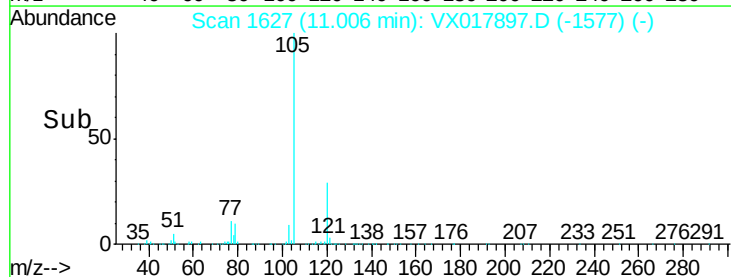
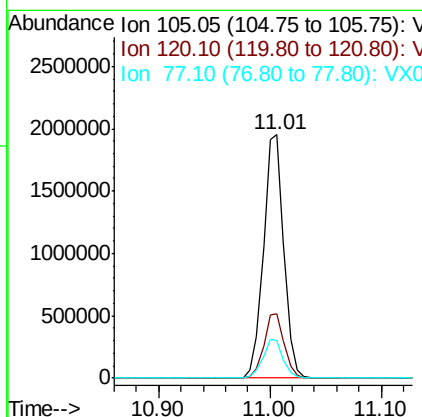
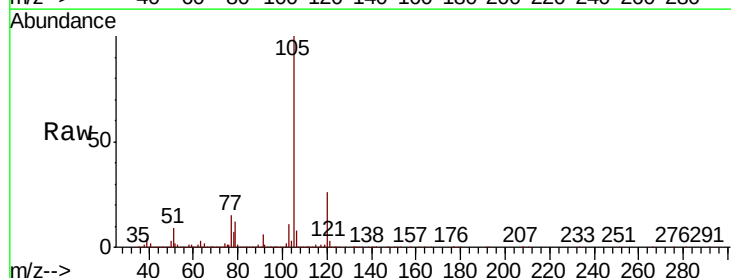
Manual Integrations
APPROVED

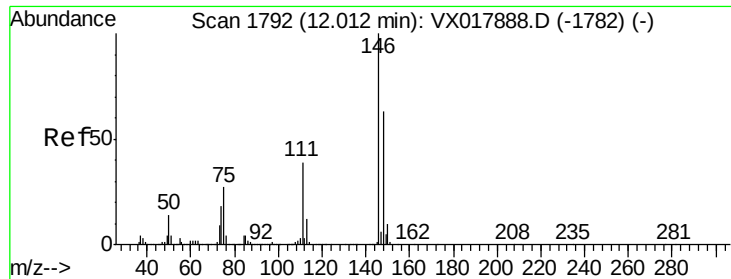
MMDadoda
8/17/2020 8:09:10 AM



#58
Isopropylbenzene
Concen: 22.463 ug/L
RT: 11.01 min Scan# 1627
Delta R.T. 0.01 min
Lab File: VX017897.D
Acq: 14 Aug 2020 14:04

Tgt Ion:105 Resp: 2498319
Ion Ratio Lower Upper
105 100
120 26.4 21.8 32.6
77 15.7 12.8 19.2





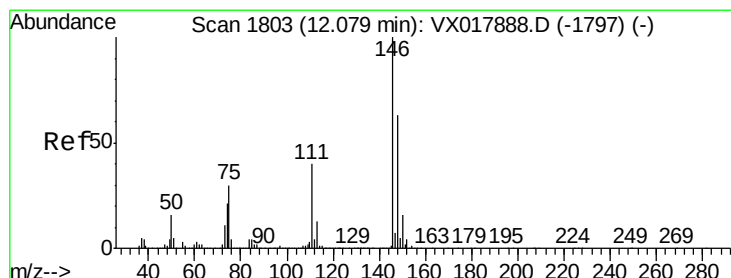
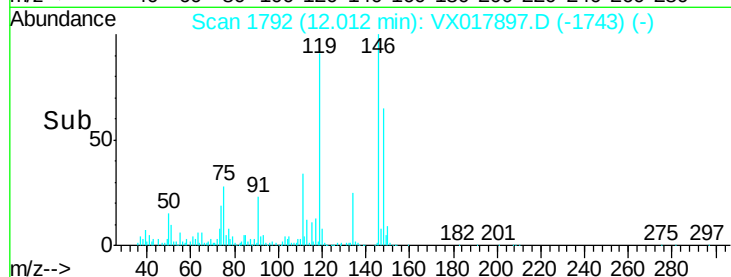
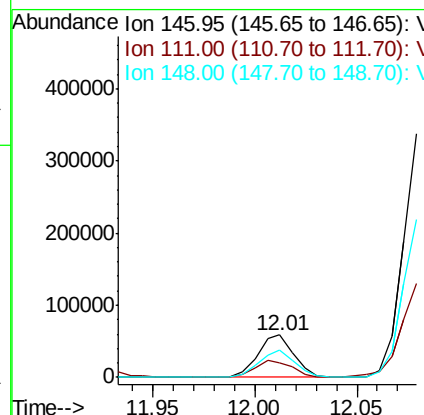
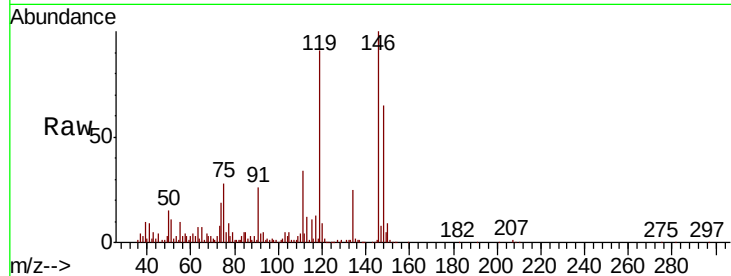
#63
 1,3-Dichlorobenzene
 Concen: 1.270 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Instrument :
 MSVOA_X
 ClientSampled :
 BG0M9

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.5	27.6	51.4
148	64.9	43.9	81.5

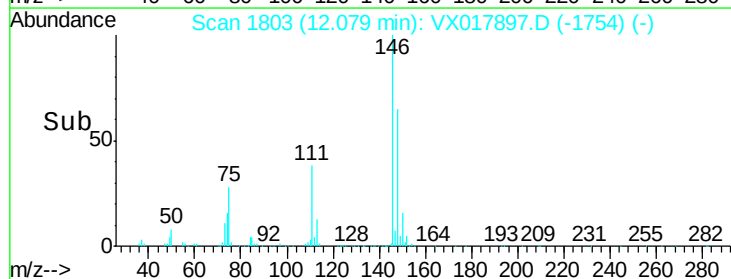
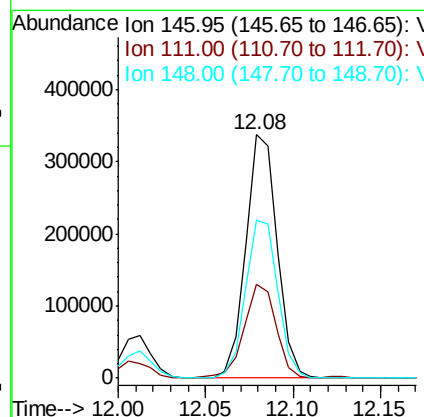
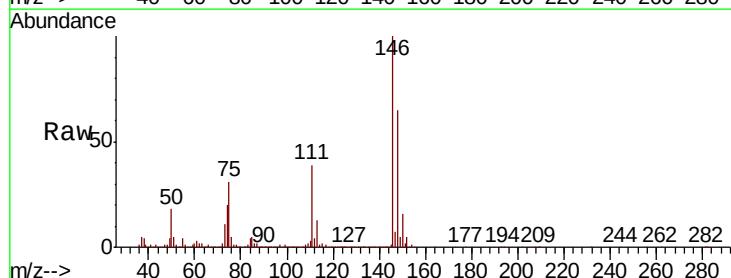
Manual Integrations
 APPROVED

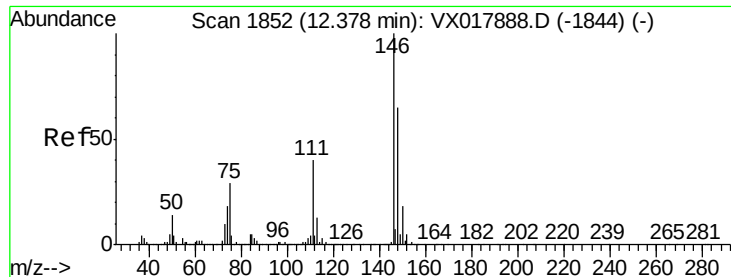
MMDadoda
 8/17/2020 8:09:10 AM



#64
 1,4-Dichlorobenzene
 Concen: 7.323 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	26.0	48.2
148	65.0	43.2	80.2





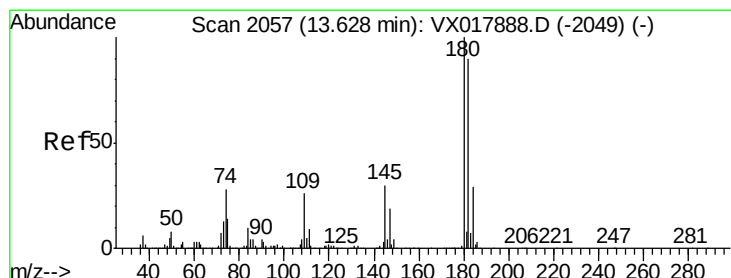
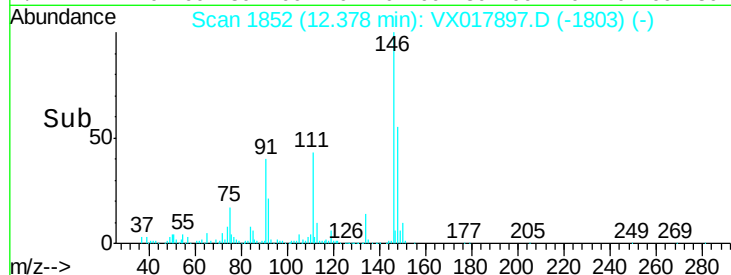
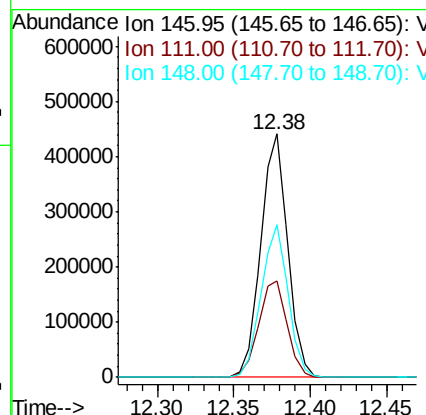
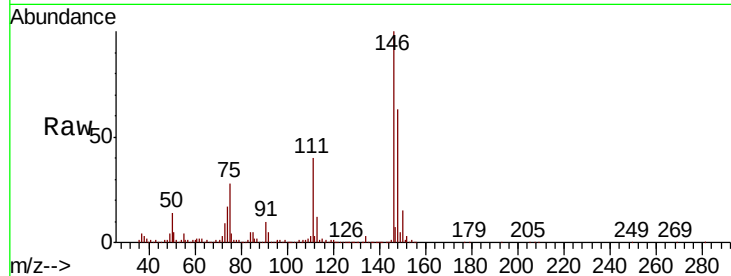
#66
 1,2-Dichlorobenzene
 Concen: 10.113 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0M9

Tot Ion:	146	Resp:	539840
Ion Ratio	Lower	Upper	
146	100		
111	39.7	32.2	48.4
148	62.7	52.3	78.5

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 8:09:10 AM



#69
 1,2,4-trichlorobenzene
 Concen: 0.183 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX017897.D
 Acq: 14 Aug 2020 14:04

Tgt Ion:	180	Resp:	6869
Ion Ratio	Lower	Upper	
180	100		
182	88.6	76.5	114.7
145	77.4	25.4	38.0#

