

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033860.D
 Acq On : 30 May 2019 7:36
 Operator : SY/AP
 Sample : K3067-09
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-23-20190523-0

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Quant Time: May 30 08:16:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	707521	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1625414	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1640834	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1329850	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	17634m	0.218	ppbv	
4) Chloromethane	3.17	50	5438m	0.117	ppbv	
11) Trichlorofluoromethane	4.00	101	49537	0.348	ppbv	89
13) Ethanol	3.65	45	137117	12.307	ppbv	98
15) Acetone	3.90	43	568013	5.786	ppbv	98
17) tert-Butyl alcohol	4.37	59	12188m	0.154	ppbv	
19) Isopropyl Alcohol	4.03	45	197152	3.115	ppbv #	93
20) Methylene Chloride	4.41	84	11166	0.295	ppbv #	72
26) Hexane	5.77	57	97762	1.319	ppbv #	44
27) Carbon Disulfide	4.62	76	33559	0.330	ppbv #	73
29) Chloroform	5.84	83	32194	0.236	ppbv	93
32) 1,1,1-Trichloroethane	6.62	97	120537	0.884	ppbv	96
34) 2-Butanone	5.33	43	83368	0.827	ppbv	98
35) Carbon Tetrachloride	7.13	117	6572m	0.050	ppbv	
36) Benzene	6.99	78	26509	0.179	ppbv	97
52) Tetrachloroethene	11.36	164	860850	16.563	ppbv	98
53) Toluene	9.94	91	140430	0.881	ppbv	94
59) m/p-Xylene	13.12	91	52464m	0.276	ppbv	
60) o-Xylene	13.84	91	31163m	0.163	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	27504m	0.118	ppbv	

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

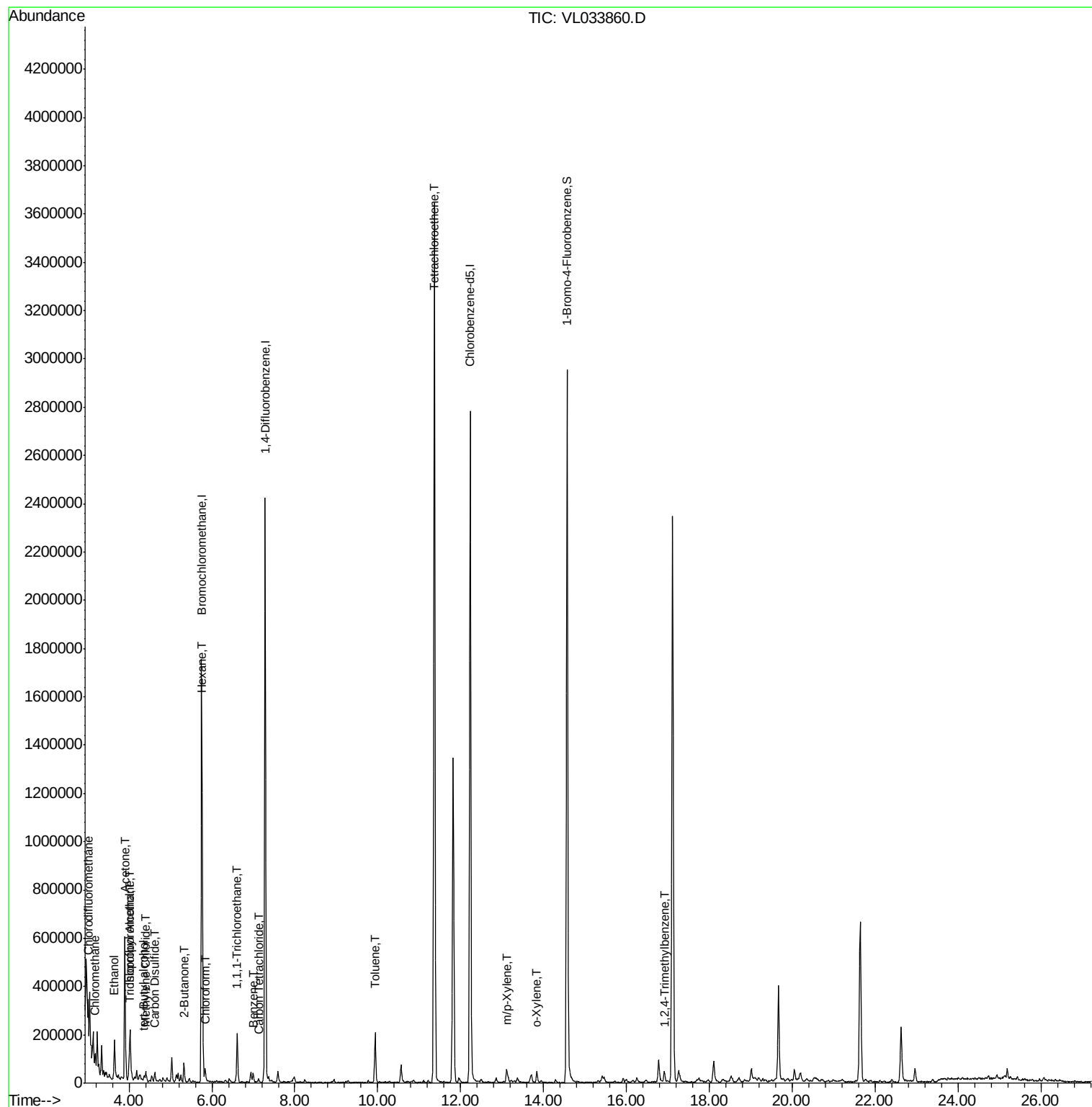
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

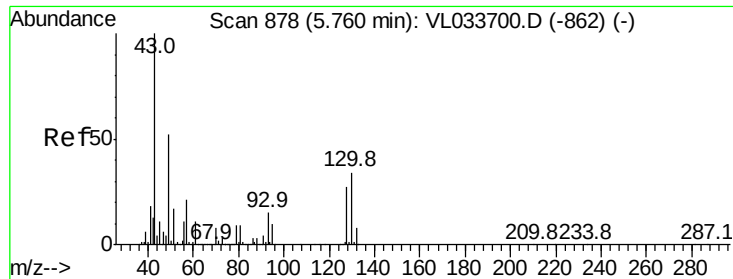
Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

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Quant Time: May 30 08:16:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

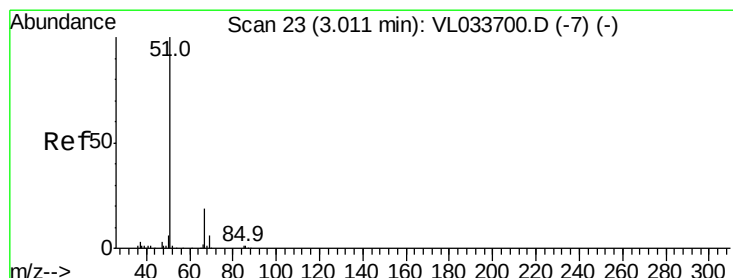
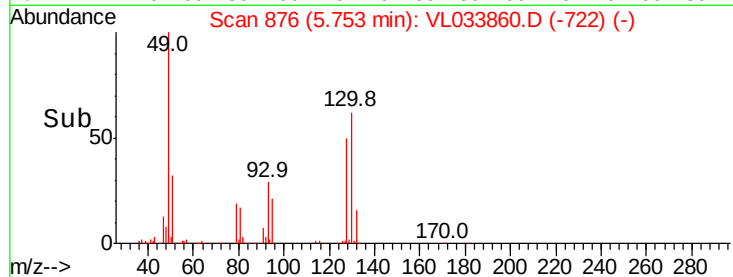
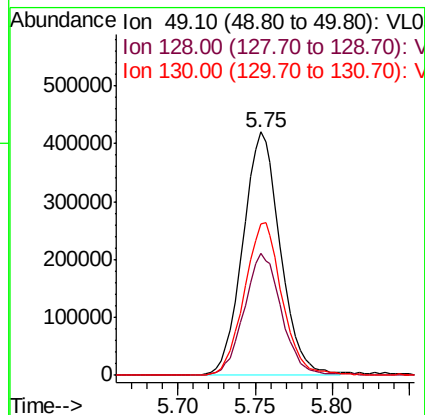
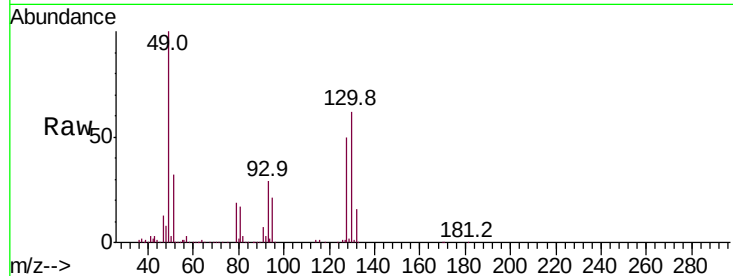
ClientSampleId :

SG-23-20190523-0

Tot Ion:	49	Resp:	707521
Ion Ratio	Lower	Upper	
49	100		
128	50.2	25.2	75.6
130	63.7	32.5	97.5

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#3

Chlorodifluoromethane

Concen: 0.218 ppbv m

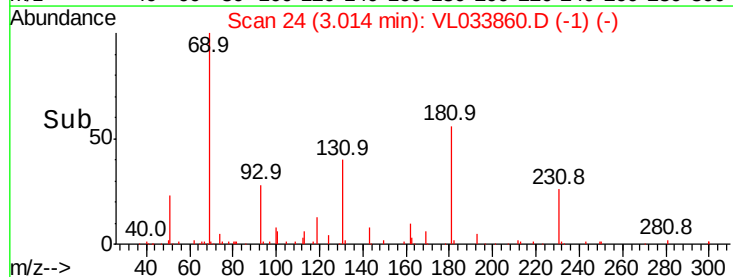
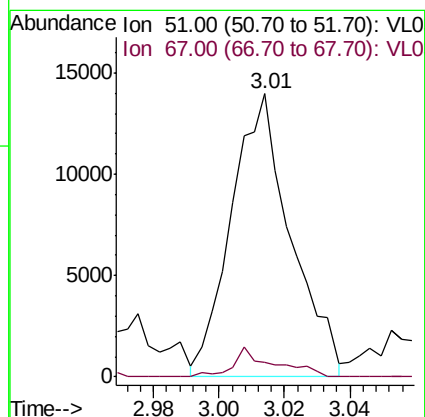
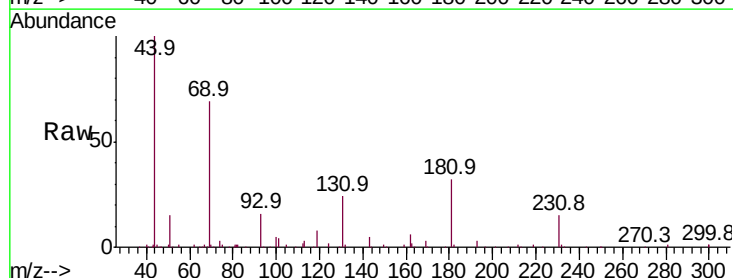
RT: 3.01 min Scan# 24

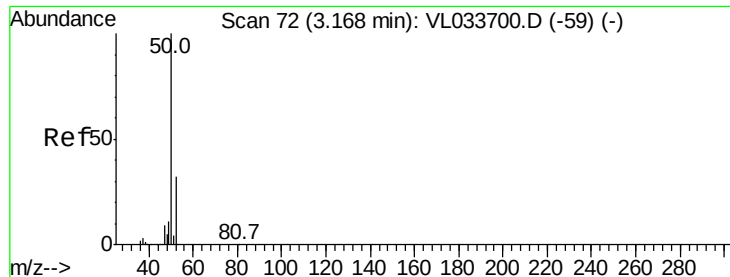
Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Tgt Ion:	51	Resp:	17634
Ion Ratio	Lower	Upper	
51	100		
67	2.6	15.6	23.4#





#4

Chloromethane

Concen: 0.117 ppbv m

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

Tot Ion: 50 Resp: 5438

Ion Ratio Lower Upper

50 100

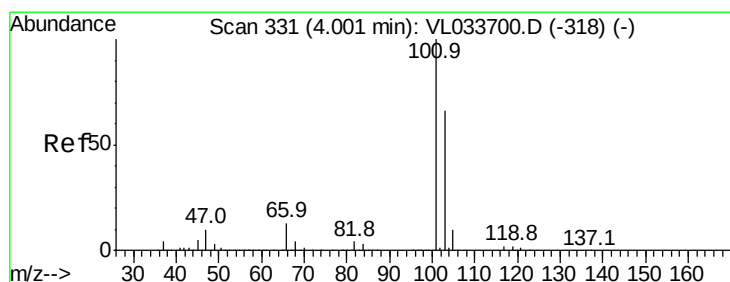
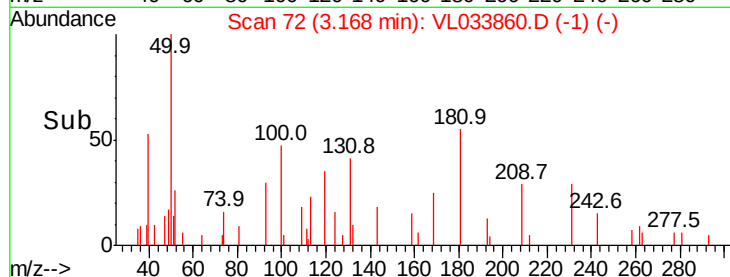
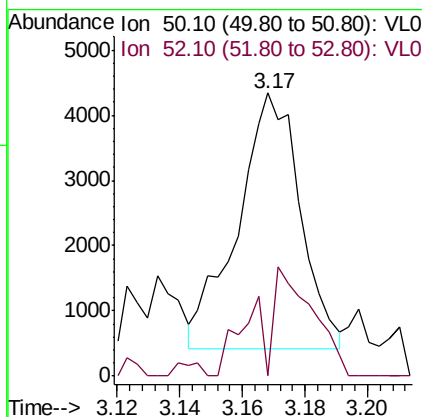
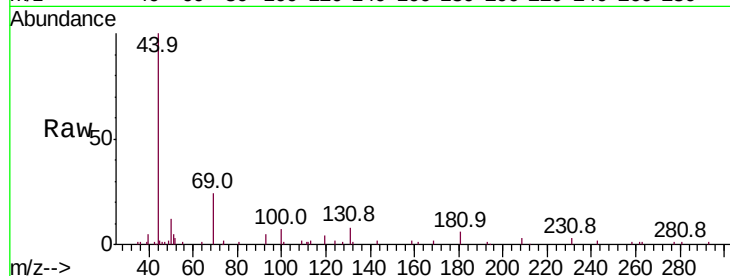
52 0.0 25.7 38.5#

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#11

Trichlorofluoromethane

Concen: 0.348 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033860.D

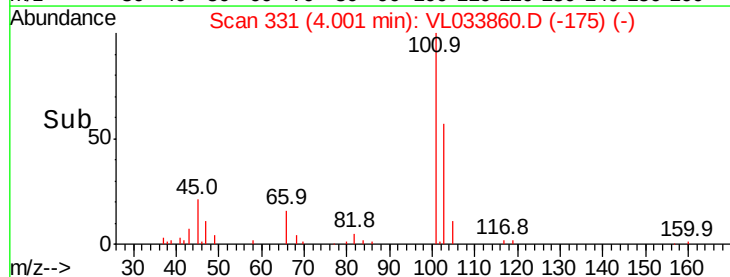
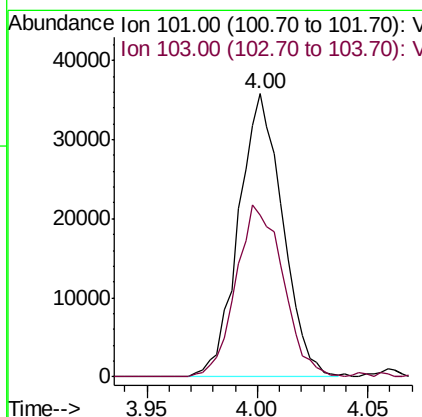
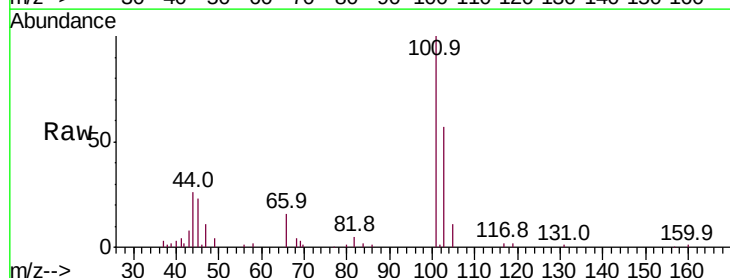
Acq: 30 May 2019 7:36

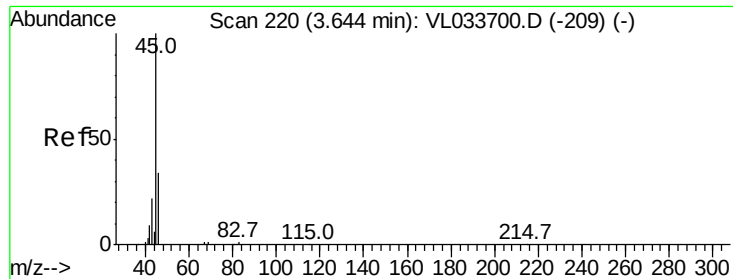
Tgt Ion: 101 Resp: 49537

Ion Ratio Lower Upper

101 100

103 57.4 52.6 78.8





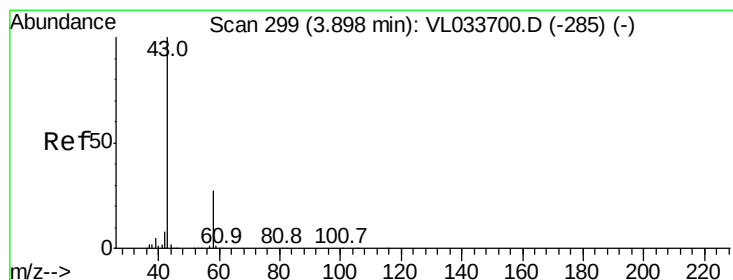
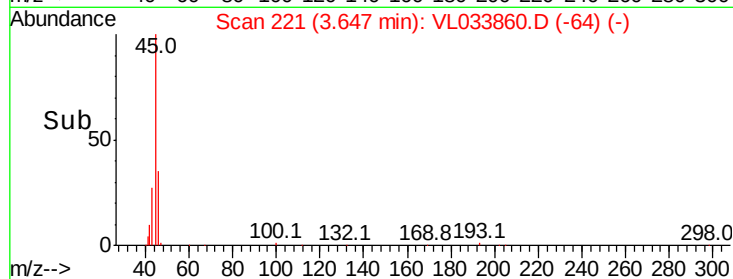
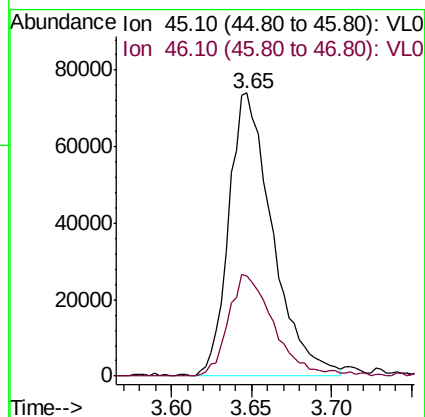
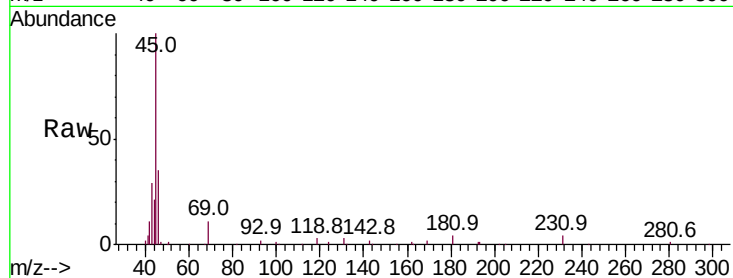
#13
Ethanol
Concen: 12.307 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.0	14.8	59.0

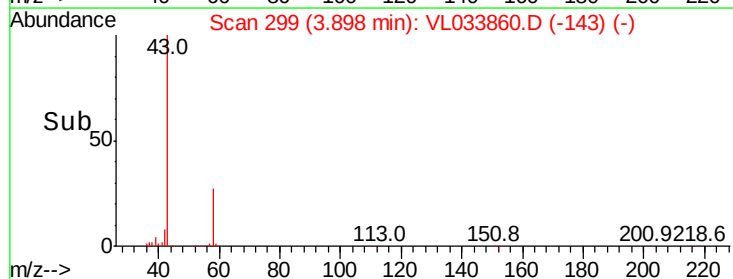
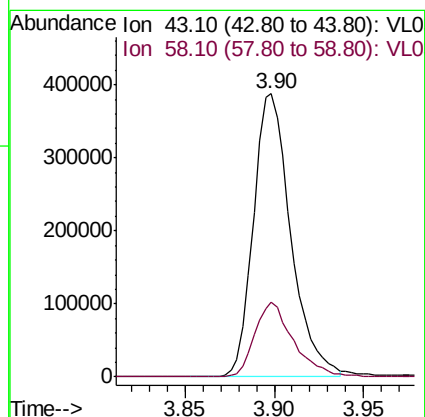
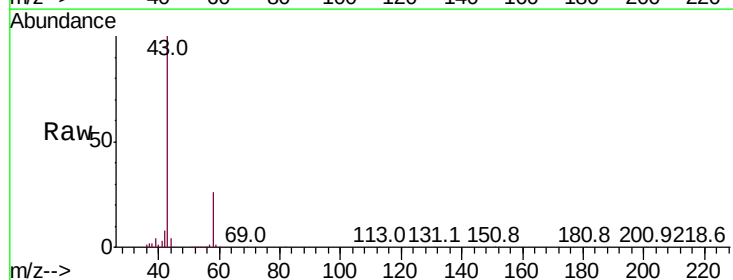
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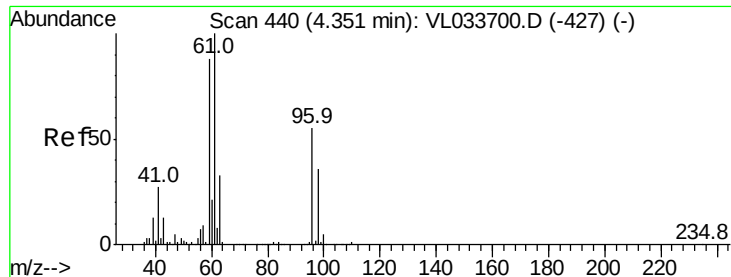
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#15
Acetone
Concen: 5.786 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.6	21.3	31.9





#17

tert-Butyl alcohol

Concen: 0.154 ppbv m

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

Tot Ion: 59 Resp: 12188

Ion Ratio Lower Upper

59 100

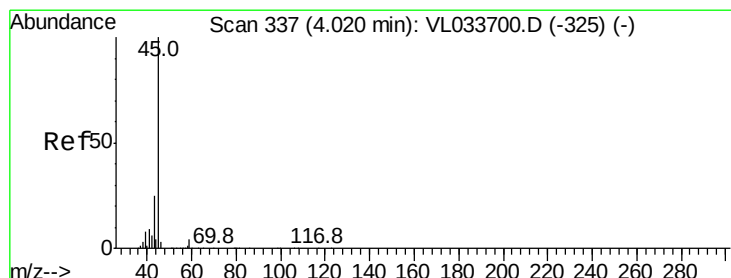
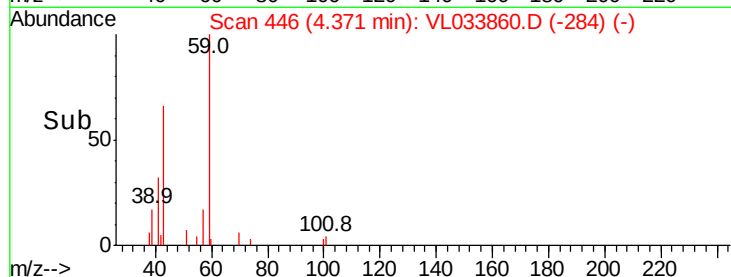
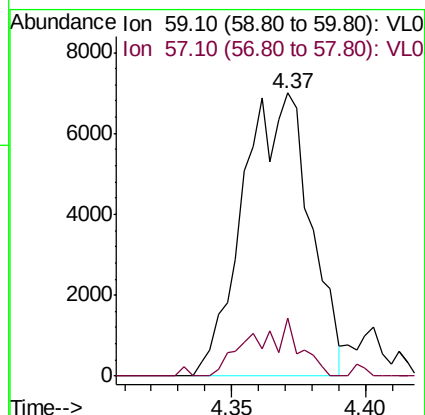
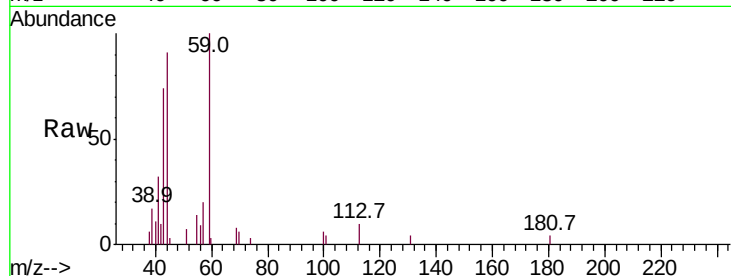
57 0.0 8.4 12.6#

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#19

Isopropyl Alcohol

Concen: 3.115 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033860.D

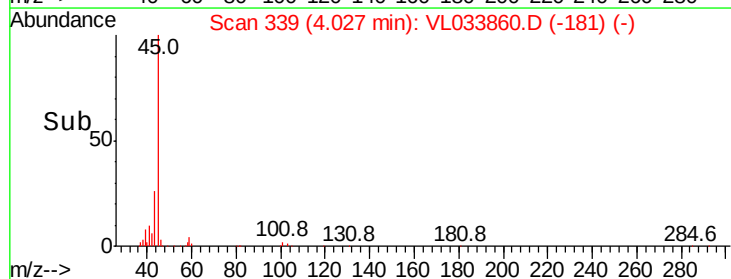
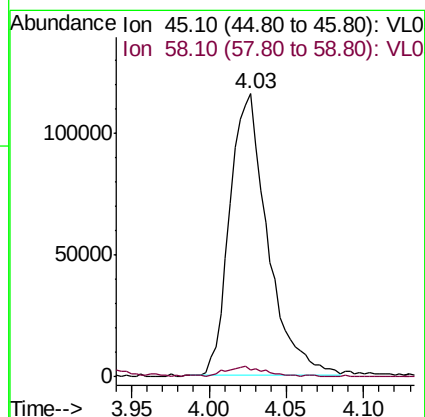
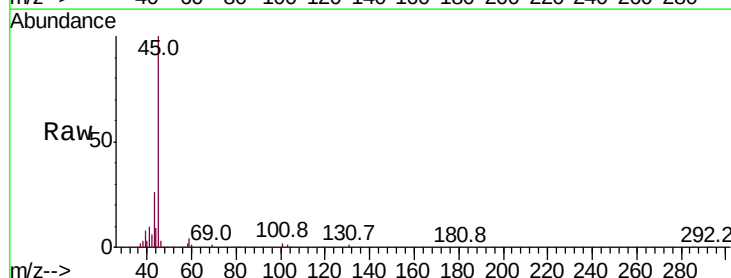
Acq: 30 May 2019 7:36

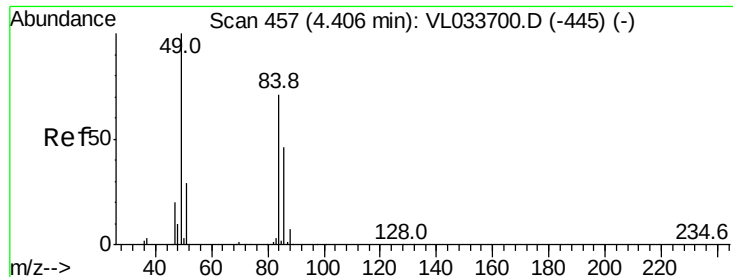
Tgt Ion: 45 Resp: 197152

Ion Ratio Lower Upper

45 100

58 4.4 1.6 2.4#





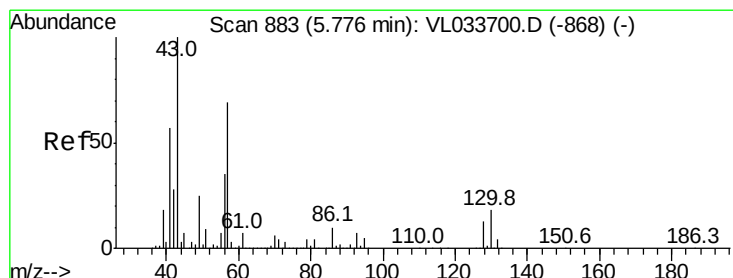
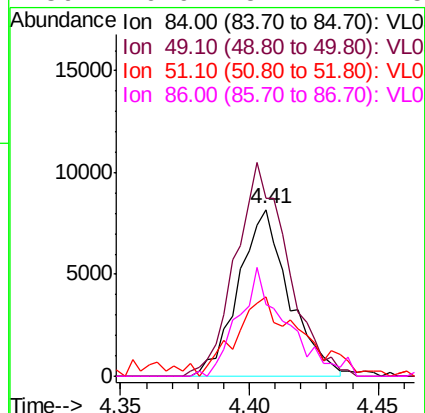
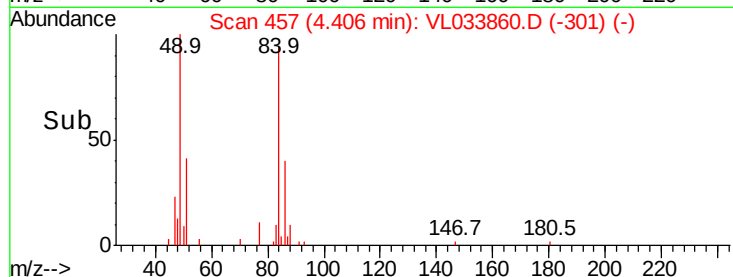
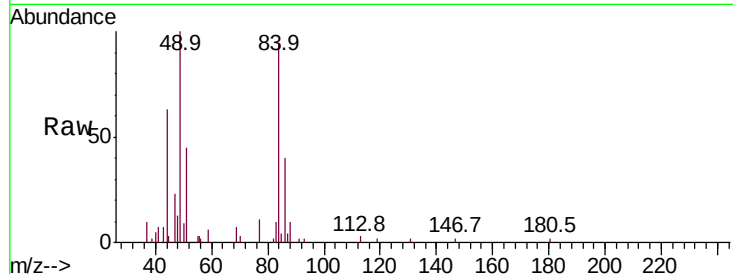
#20
Methylene Chloride
Concen: 0.295 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tot Ion	Ratio	Lower	Upper
84	100		
49	99.4	112.8	169.2#
51	38.1	33.4	50.0
86	40.9	51.7	77.5#

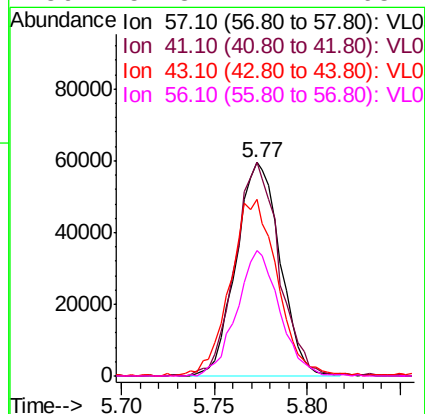
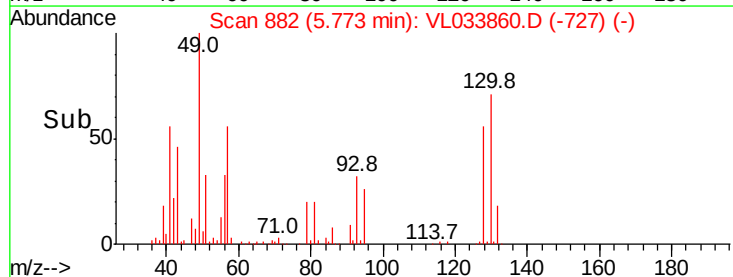
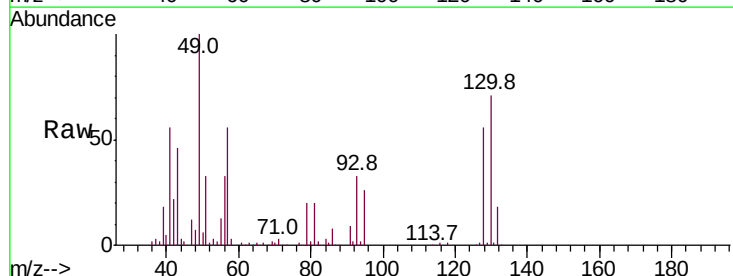
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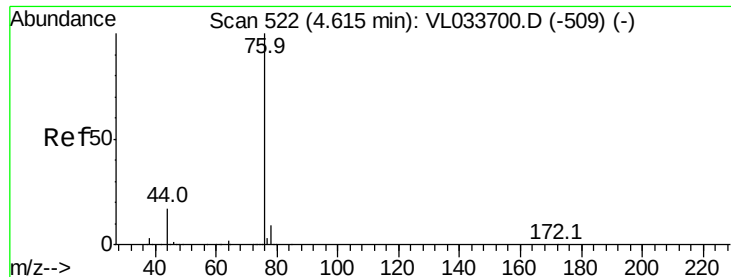
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#26
Hexane
Concen: 1.319 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.8	69.8	104.6
43	90.0	181.8	272.6#
56	57.3	42.1	63.1





#27

Carbon Disulfide

Concen: 0.330 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

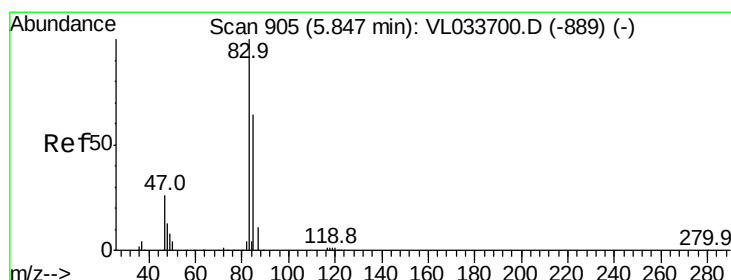
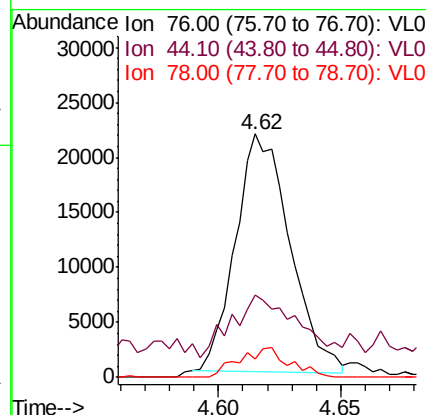
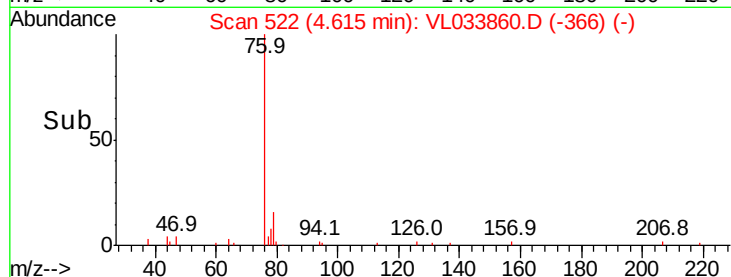
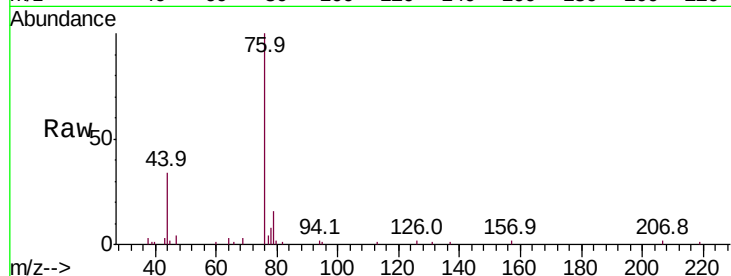
ClientSampleId :

SG-23-20190523-0

Tot Ion:	76	Resp:	33559
Ion Ratio	Lower	Upper	
76	100		
44	33.8	13.8	20.8#
78	11.4	7.4	11.0#

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#29

Chloroform

Concen: 0.236 ppbv

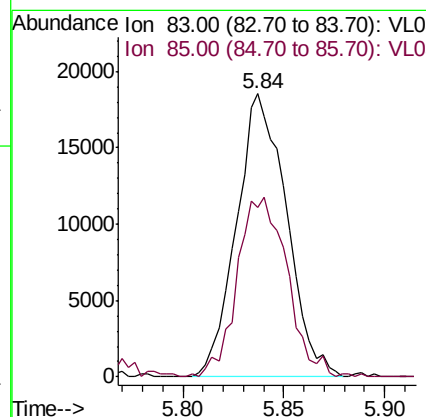
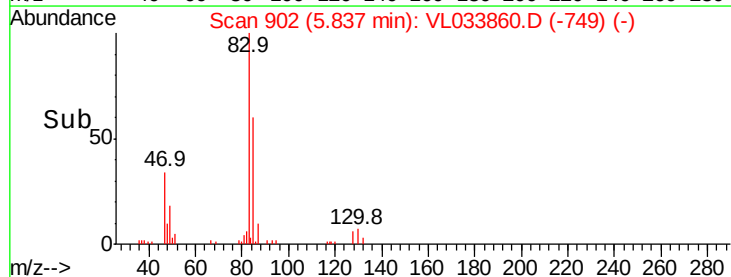
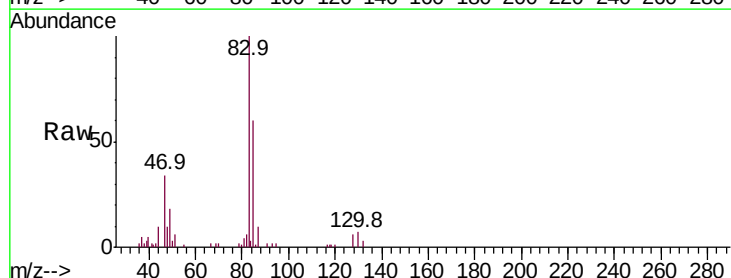
RT: 5.84 min Scan# 902

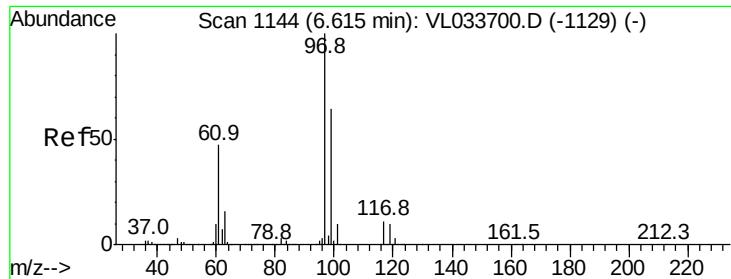
Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Tgt Ion:	83	Resp:	32194
Ion Ratio	Lower	Upper	
83	100		
85	58.8	51.5	77.3





#32

1,1,1-Trichloroethane

Concen: 0.884 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

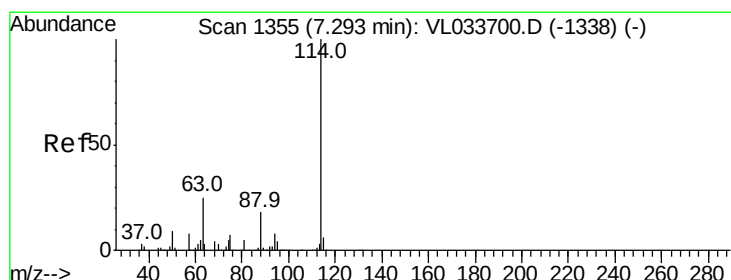
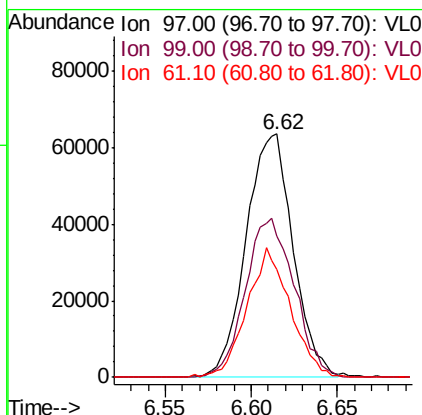
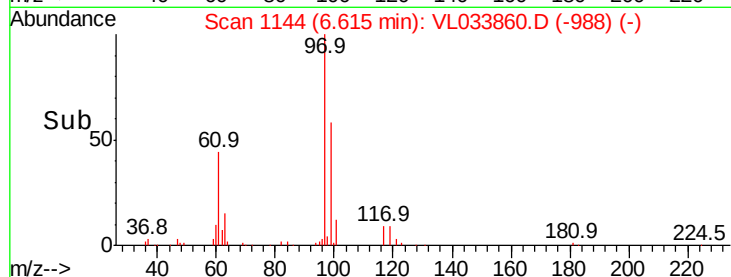
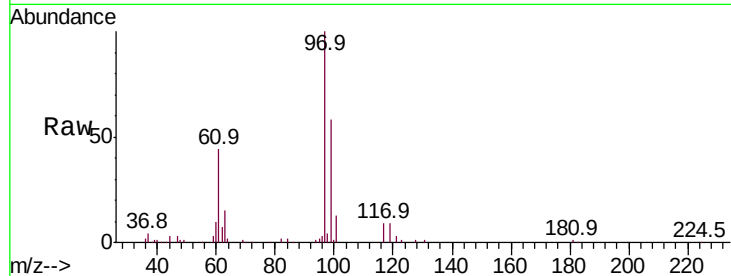
ClientSampleId :

SG-23-20190523-0

Tot Ion:	97	Resp:	120537
Ion	Ratio	Lower	Upper
97	100		
99	67.8	51.5	77.3
61	49.2	37.8	56.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

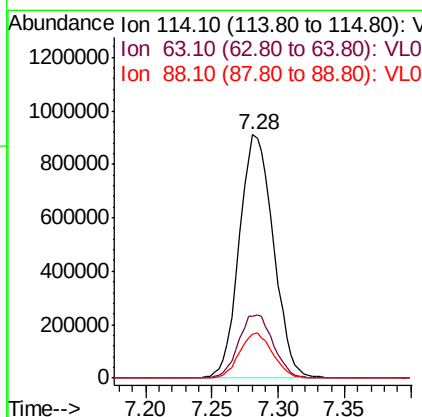
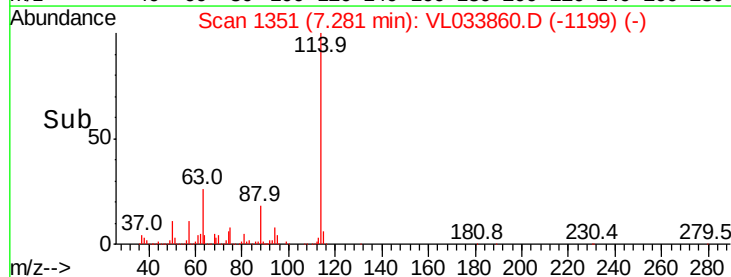
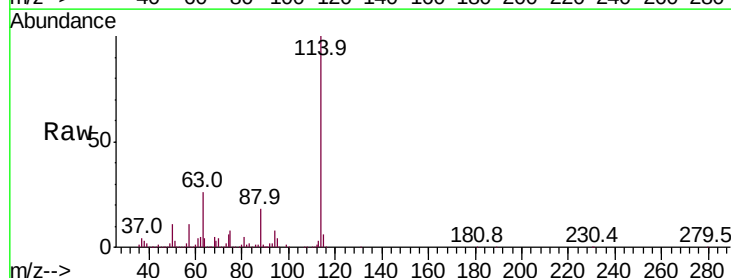
RT: 7.28 min Scan# 1351

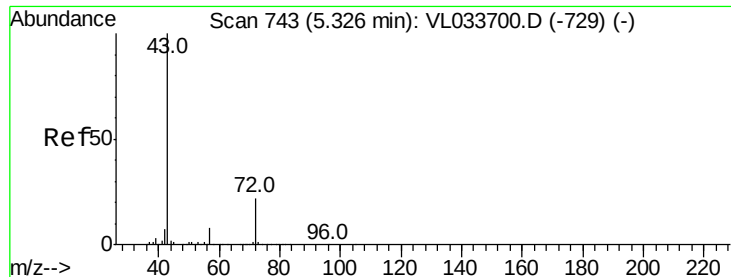
Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Tgt Ion:	114	Resp:	1625414
Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.9	31.3
88	18.1	14.3	21.5





#34

2-Butanone

Concen: 0.827 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

Tot Ion: 43 Resp: 83368

Ion Ratio Lower Upper

43 100

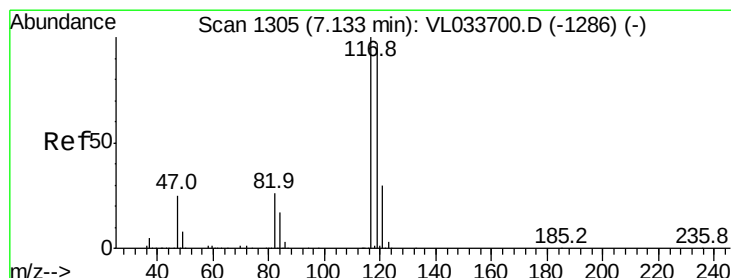
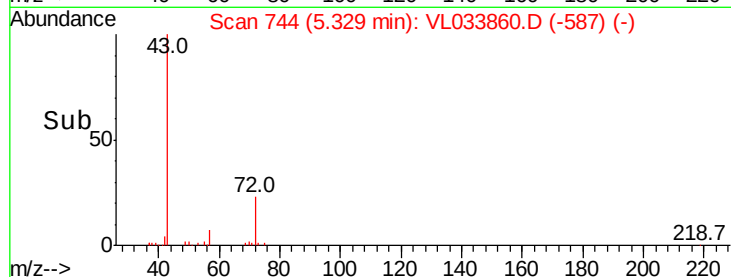
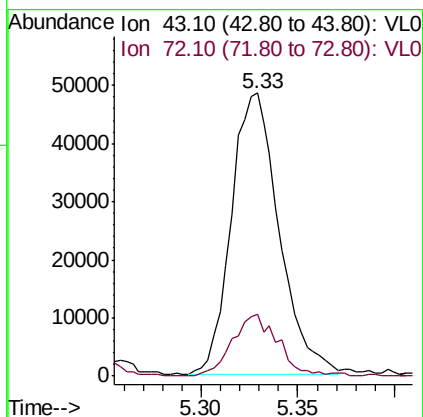
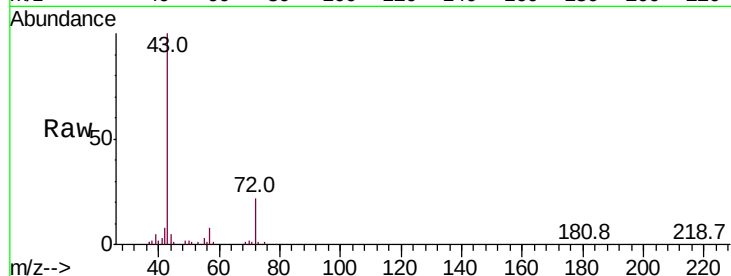
72 21.2 17.8 26.6

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#35

Carbon Tetrachloride

Concen: 0.050 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

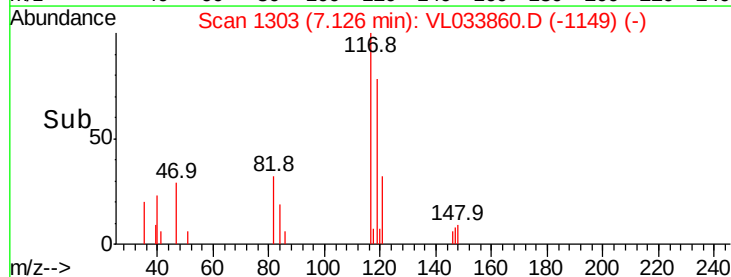
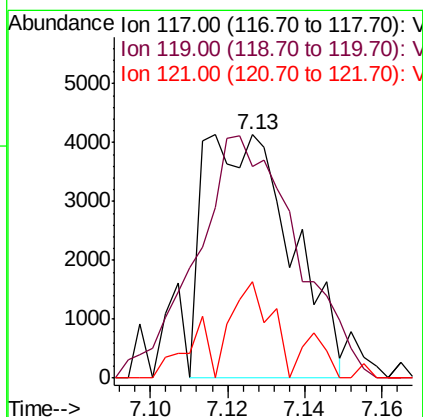
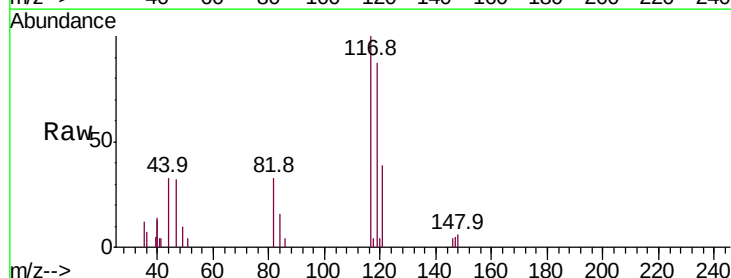
Tgt Ion: 117 Resp: 6572

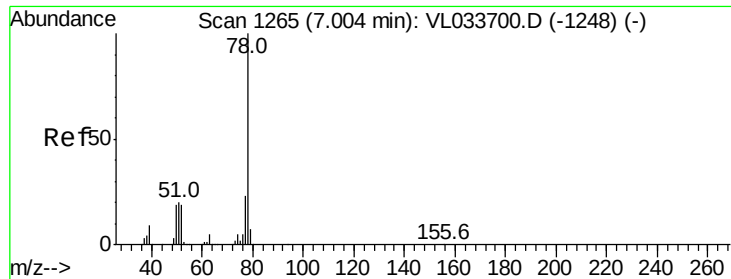
Ion Ratio Lower Upper

117 100

119 86.7 77.2 115.8

121 39.4 24.1 36.1#





#36

Benzene

Concen: 0.179 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

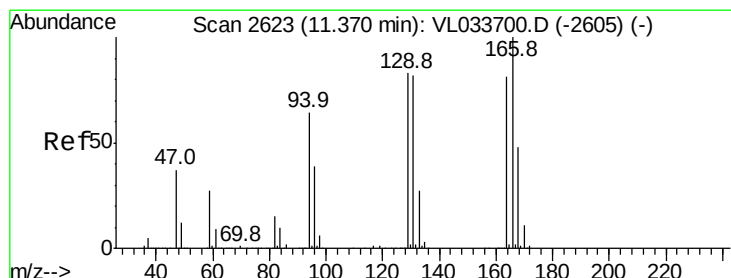
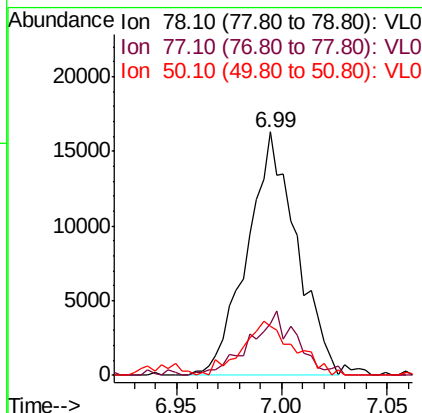
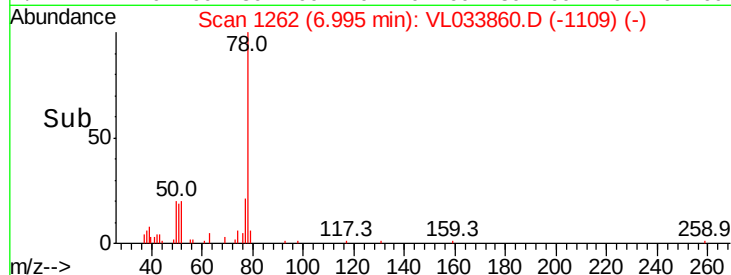
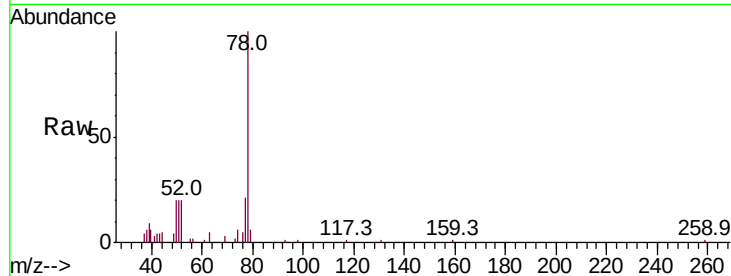
ClientSampleId :

SG-23-20190523-0

Tot Ion:	78	Resp:	26509
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.4	27.6
50	18.1	15.5	23.3

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#52

Tetrachloroethene

Concen: 16.563 ppbv

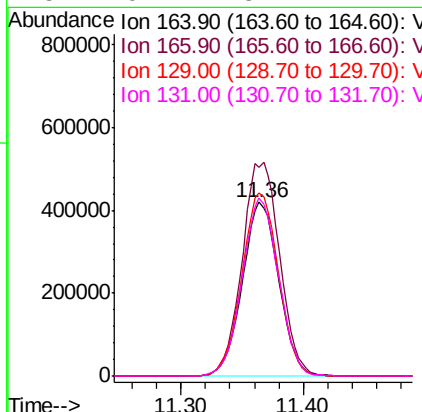
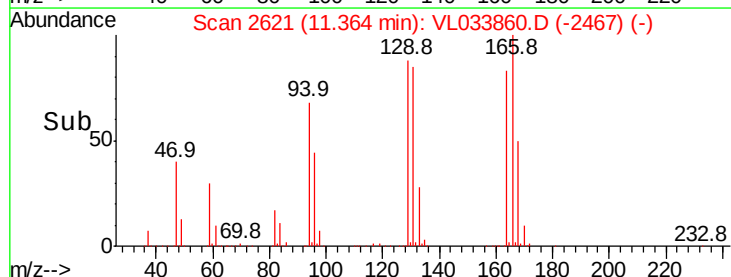
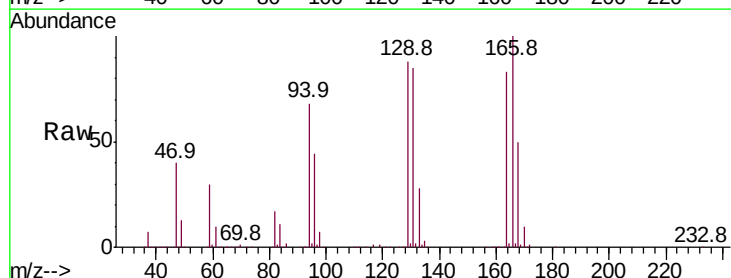
RT: 11.36 min Scan# 2621

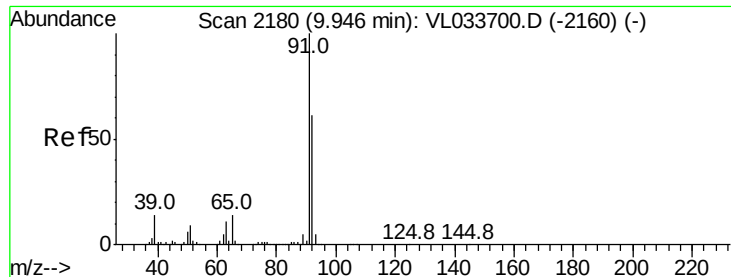
Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Tgt Ion:	164	Resp:	860850
Ion Ratio	Lower	Upper	
164	100		
166	120.4	98.9	148.3
129	105.7	81.8	122.6
131	102.4	81.1	121.7





#53

Toluene

Concen: 0.881 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

Instrument :

MSVOA_L

ClientSampleId :

SG-23-20190523-0

Tot Ion: 91 Resp: 140430

Ion Ratio Lower Upper

91 100

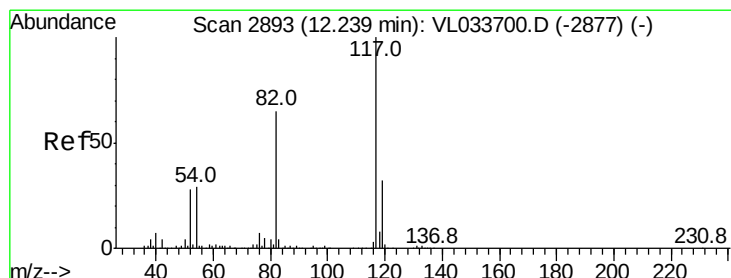
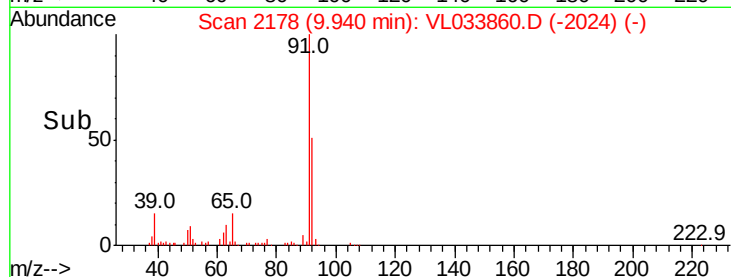
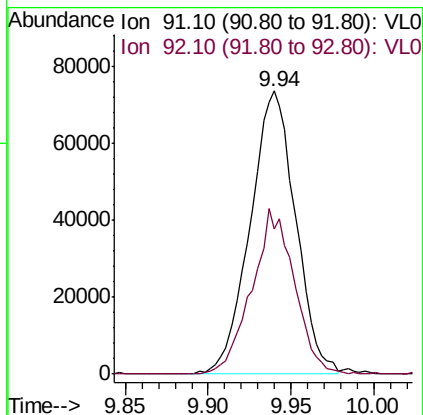
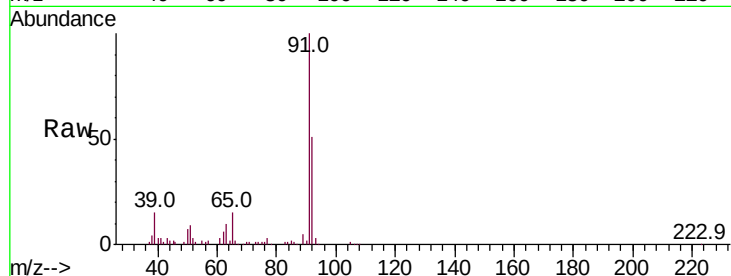
92 54.8 47.6 71.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033860.D

Acq: 30 May 2019 7:36

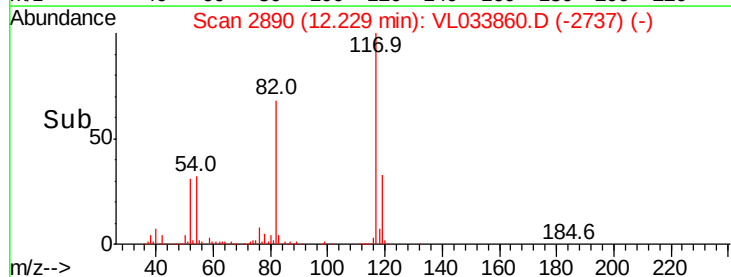
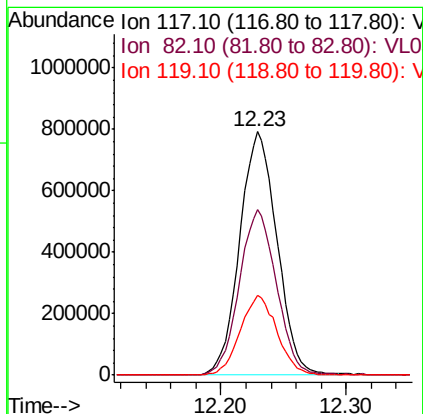
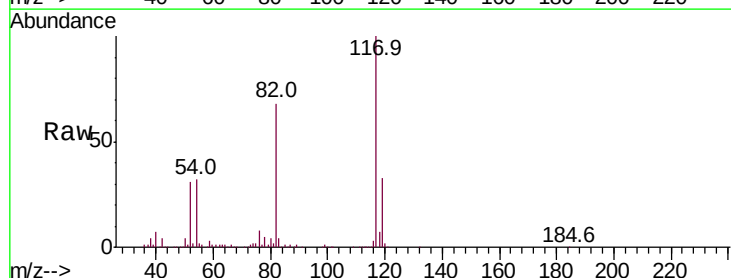
Tgt Ion: 117 Resp: 1640834

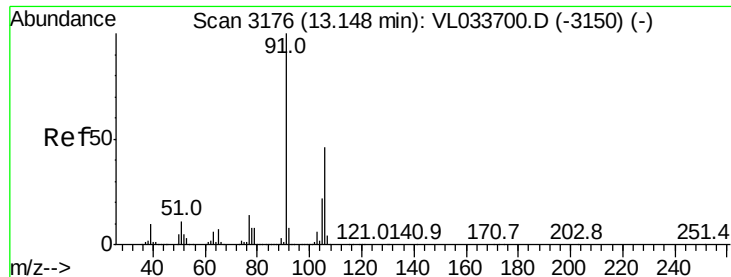
Ion Ratio Lower Upper

117 100

82 68.3 49.4 74.0

119 32.4 24.9 37.3





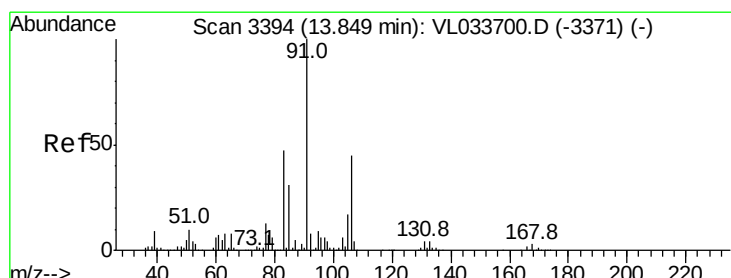
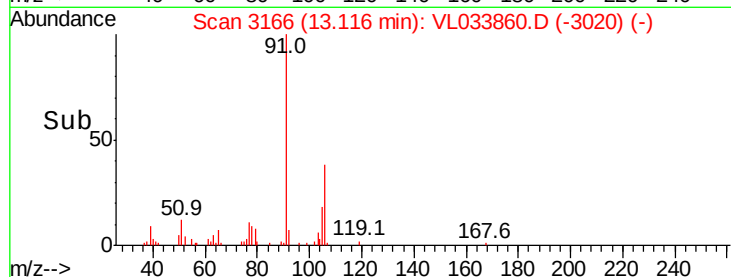
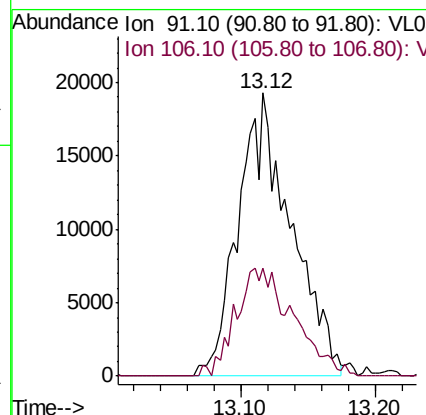
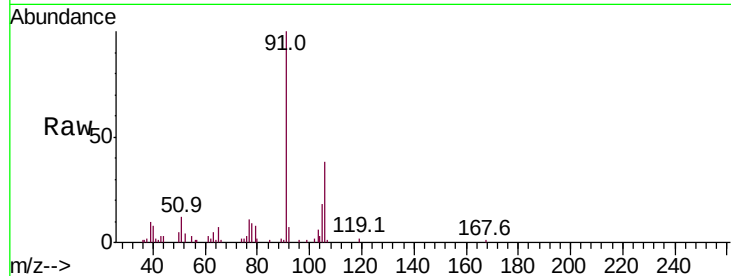
#59
m/p-Xylene
Concen: 0.276 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Instrument :
MSVOA_L
ClientSampleId :
SG-23-20190523-0

Tot Ion: 91 Resp: 52464
Ion Ratio Lower Upper
91 100
106 41.8 35.8 53.6

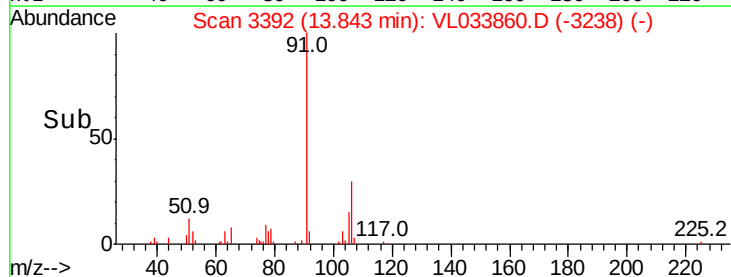
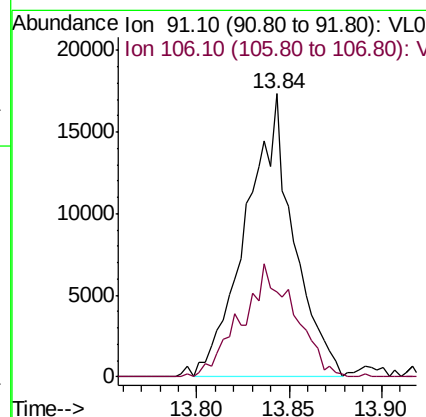
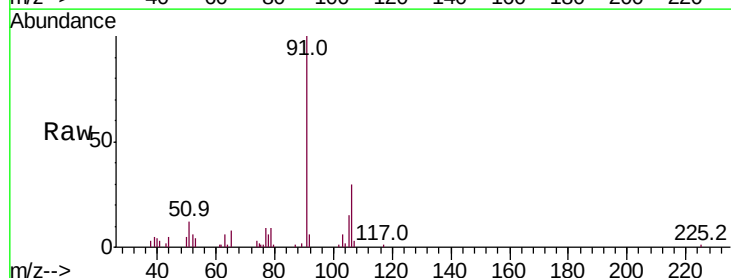
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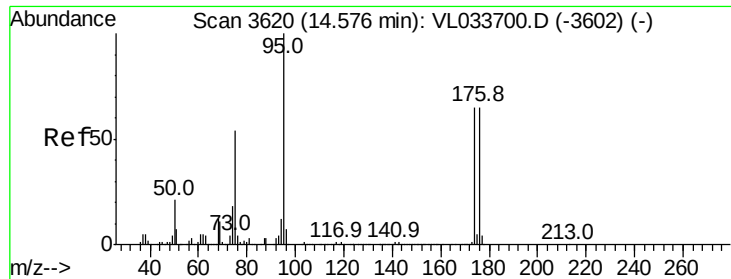
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#60
o-Xylene
Concen: 0.163 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033860.D
Acq: 30 May 2019 7:36

Tgt Ion: 91 Resp: 31163
Ion Ratio Lower Upper
91 100
106 44.2 21.6 64.8





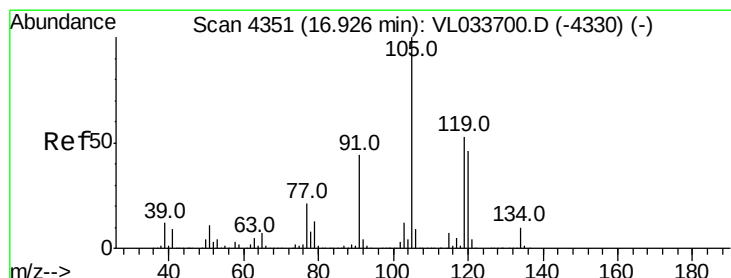
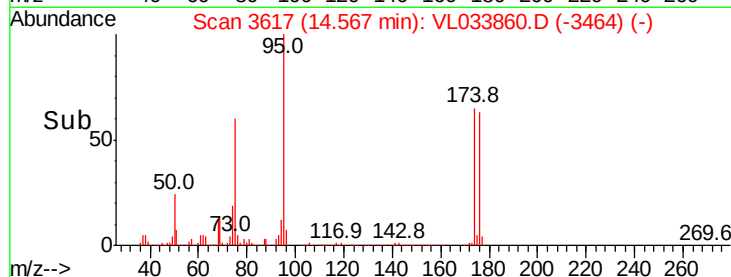
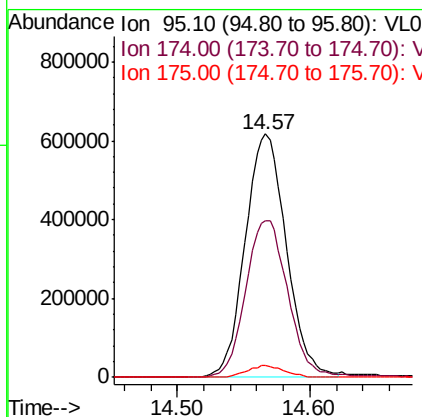
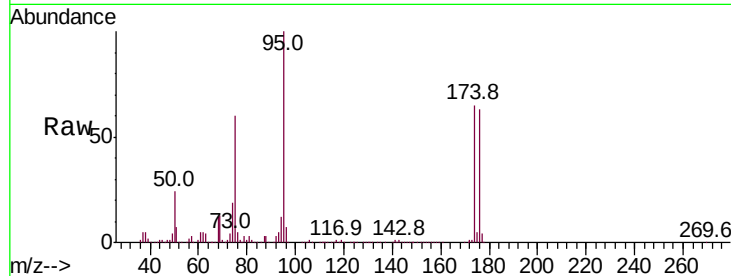
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.997 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL033860.D
 Acq: 30 May 2019 7:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-23-20190523-0

Tot Ion: 95 Resp: 1329850
 Ion Ratio Lower Upper
 95 100
 174 67.0 53.9 80.9
 175 4.7 3.8 5.8

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.118 ppbv m
 RT: 16.92 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL033860.D
 Acq: 30 May 2019 7:36

Tgt Ion: 105 Resp: 27504
 Ion Ratio Lower Upper
 105 100
 120 42.9 36.8 55.2
 91 18.3 35.4 53.0#
 77 15.6 16.8 25.2#

