

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\
 Data File : VL033844.D
 Acq On : 29 May 2019 20:48
 Operator : SY/AP
 Sample : K3067-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-25-20190522-0

Manual Integrations
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Quant Time: May 30 02:28:08 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	713467	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1778093	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1651224	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1404883	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	16769m	0.205	ppbv	
4) Chloromethane	3.17	50	12047	0.258	ppbv #	83
11) Trichlorofluoromethane	4.00	101	63893	0.445	ppbv	97
13) Ethanol	3.65	45	218169	19.418	ppbv	99
15) Acetone	3.90	43	1078433	10.894	ppbv	97
17) tert-Butyl alcohol	4.37	59	18049m	0.225	ppbv	
20) Methylene Chloride	4.41	84	95348	2.502	ppbv	95
26) Hexane	5.77	57	238826	3.195	ppbv #	40
27) Carbon Disulfide	4.62	76	43148	0.421	ppbv #	78
29) Chloroform	5.84	83	89670	0.651	ppbv	94
32) 1,1,1-Trichloroethane	6.61	97	5501m	0.040	ppbv	
34) 2-Butanone	5.33	43	146927	1.333	ppbv	99
36) Benzene	7.00	78	36819m	0.228	ppbv	
52) Tetrachloroethene	11.37	164	80867	1.422	ppbv	95
53) Toluene	9.94	91	264966	1.519	ppbv	98
59) m/p-Xylene	13.11	91	58005m	0.303	ppbv	
60) o-Xylene	13.84	91	26601	0.138	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	32187m	0.138	ppbv	

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

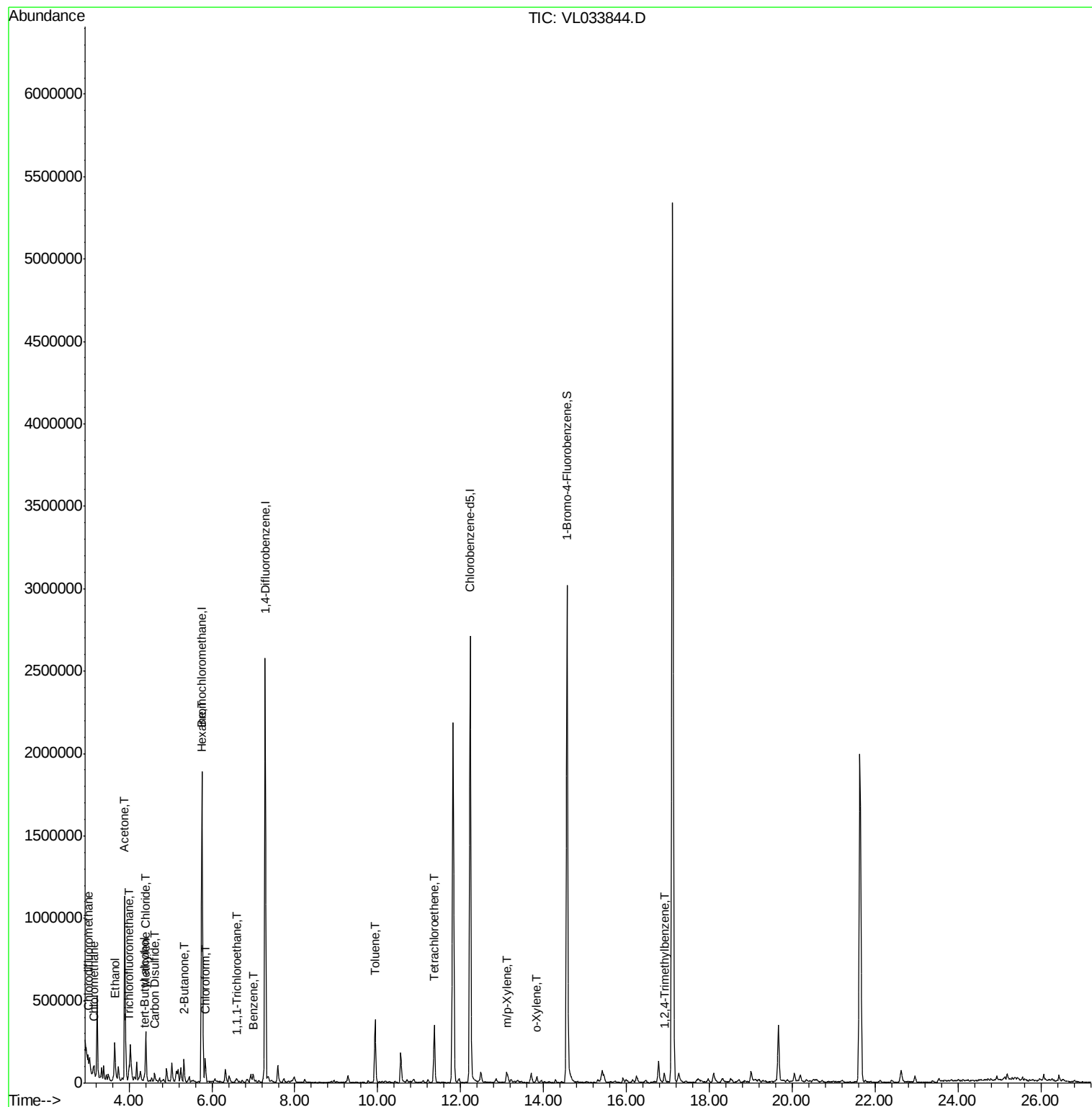
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\
Data File : VL033844.D
Acq On : 29 May 2019 20:48
Operator : SY/AP
Sample : K3067-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

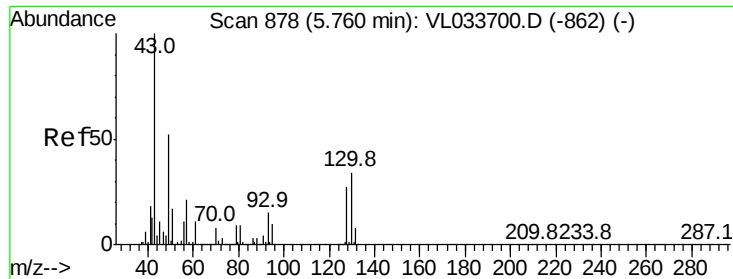
Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

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Quant Time: May 30 02:28:08 2019
Quant Method : Z:\V0ASRV\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

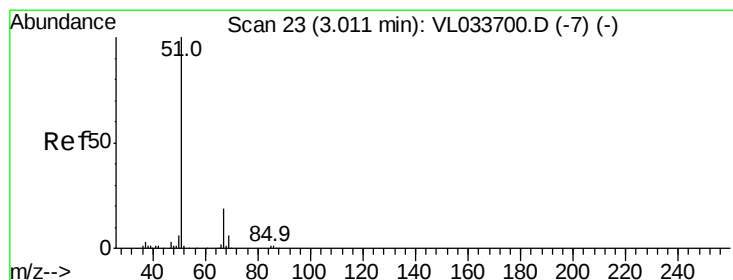
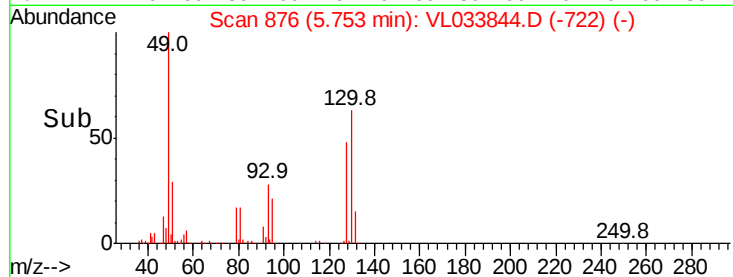
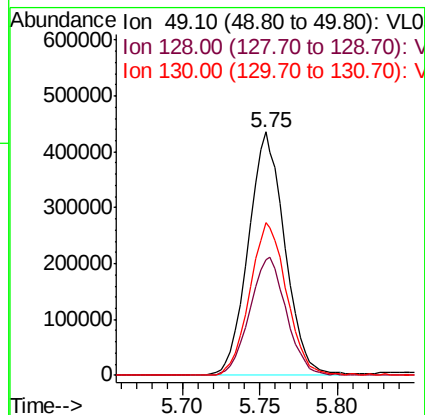
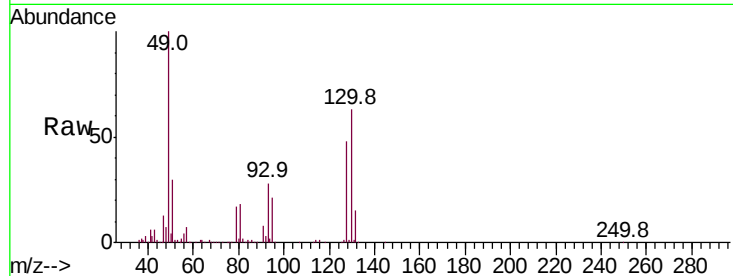
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.75 min Scan# 876
Delta R.T. -0.01 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.2	25.2	75.6
130	64.1	32.5	97.5

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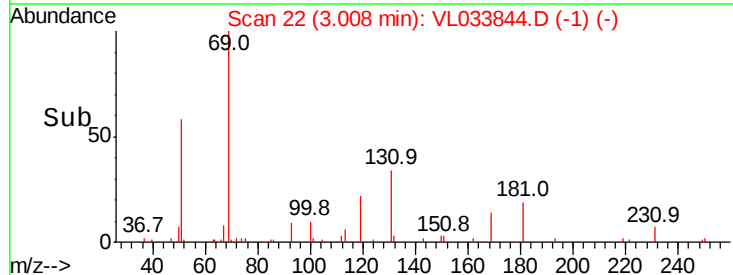
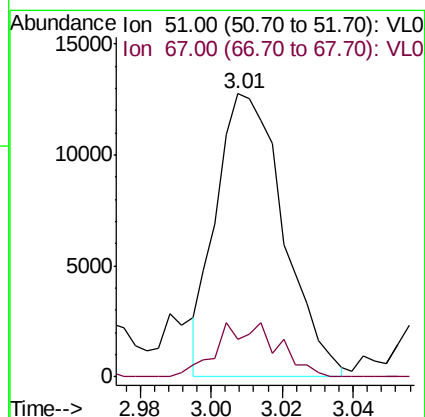
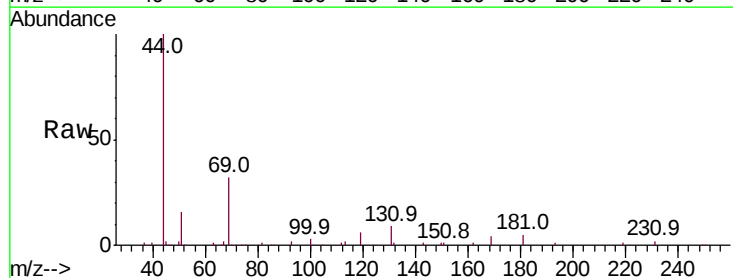
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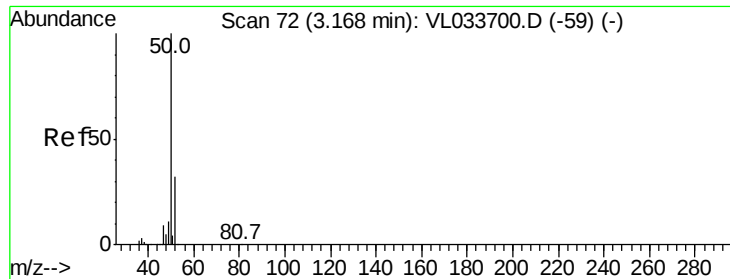


#3

Chlorodifluoromethane
Concen: 0.205 ppbv m
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Tgt Ion	Ratio	Lower	Upper
51	100		
67	17.0	15.6	23.4





#4

Chloromethane

Concen: 0.258 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-0

Tot Ion: 50 Resp: 12047

Ion Ratio Lower Upper

50 100

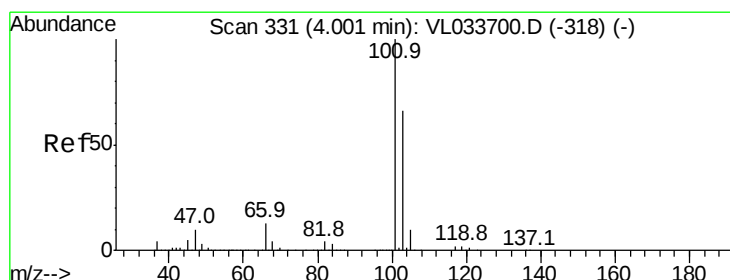
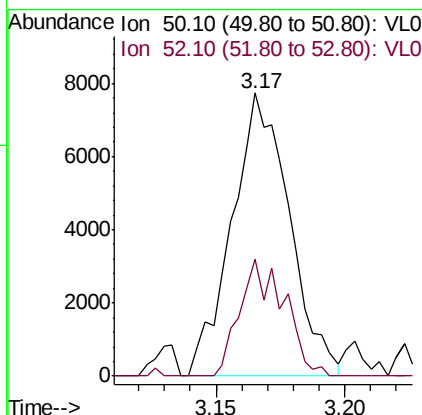
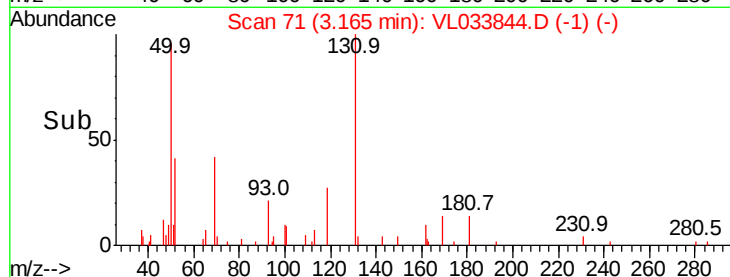
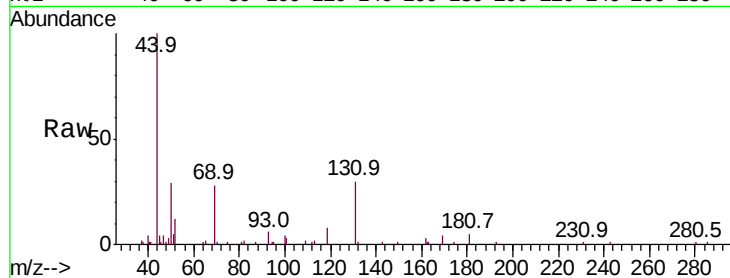
52 41.4 25.7 38.5#

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#11

Trichlorofluoromethane

Concen: 0.445 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033844.D

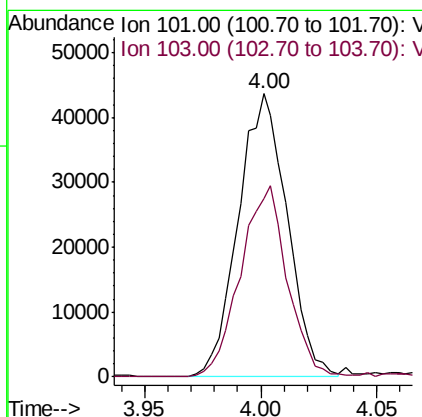
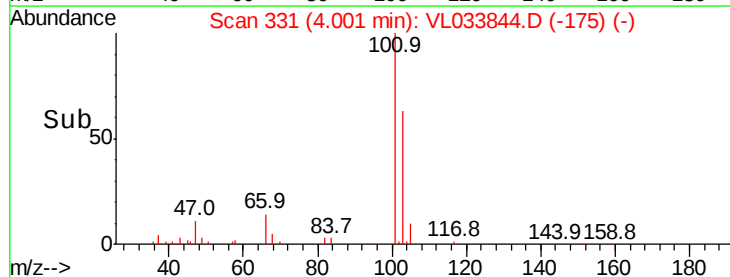
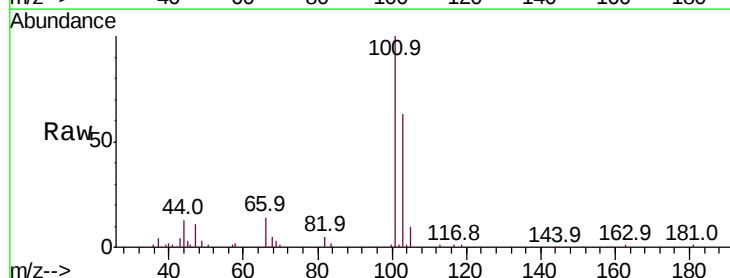
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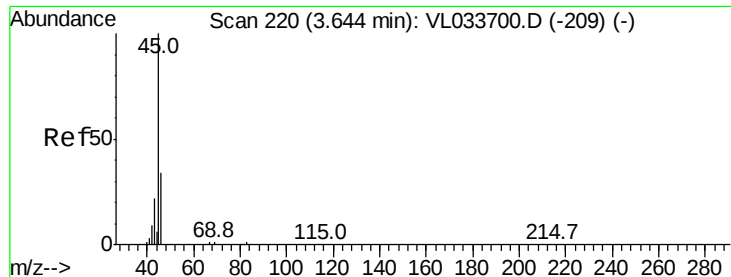
Tgt Ion:101 Resp: 63893

Ion Ratio Lower Upper

101 100

103 63.0 52.6 78.8





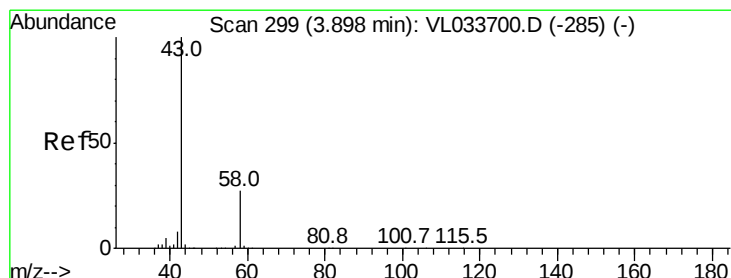
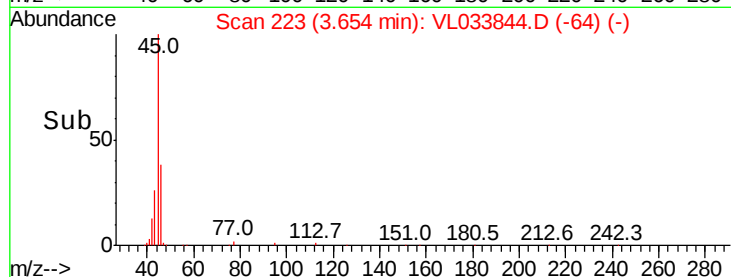
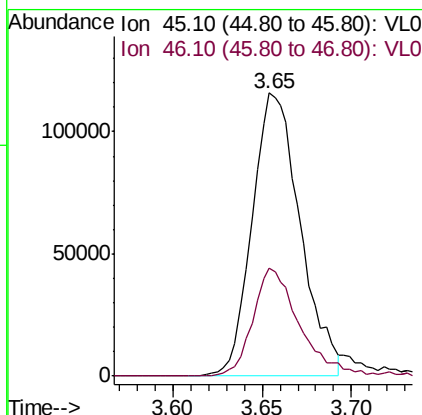
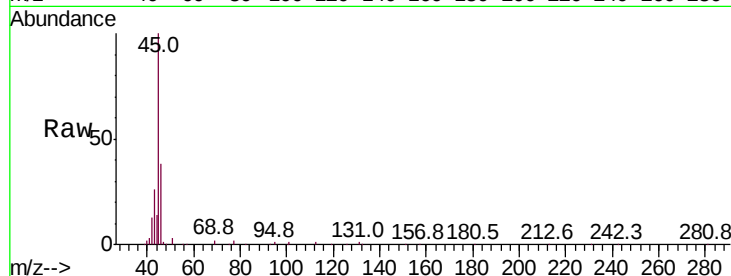
#13
Ethanol
Concen: 19.418 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

Tot Ion: 45 Resp: 218169
Ion Ratio Lower Upper
45 100
46 37.6 14.8 59.0

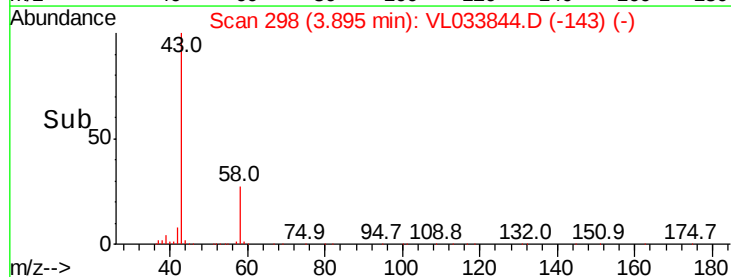
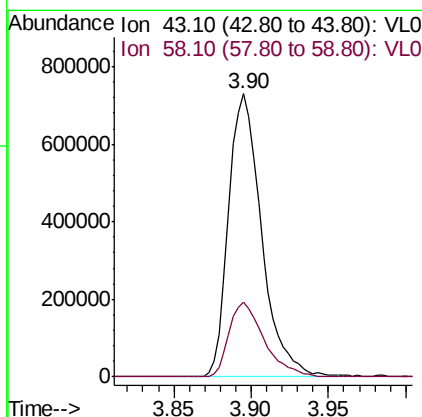
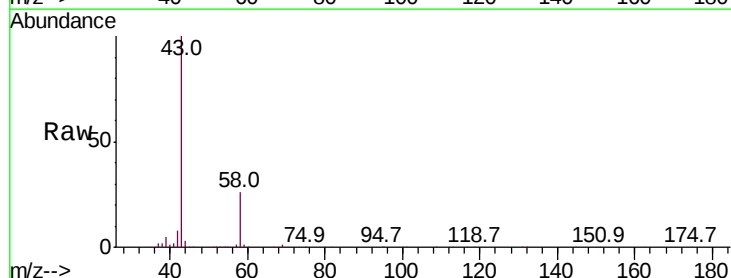
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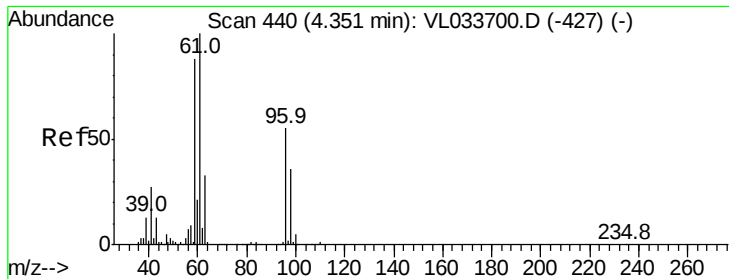
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#15
Acetone
Concen: 10.894 ppbv
RT: 3.90 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Tgt Ion: 43 Resp: 1078433
Ion Ratio Lower Upper
43 100
58 28.3 21.3 31.9





#17

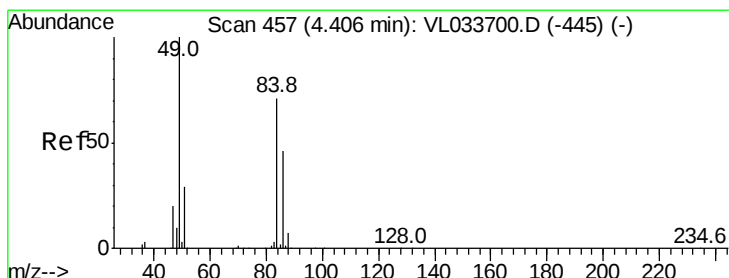
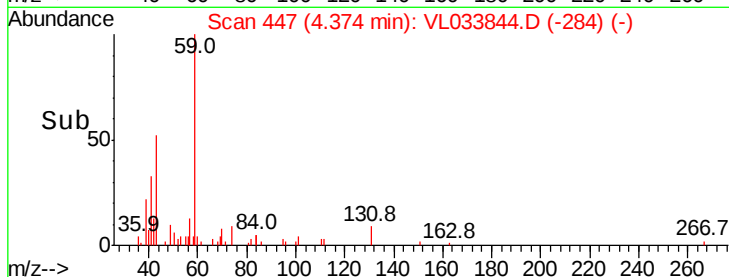
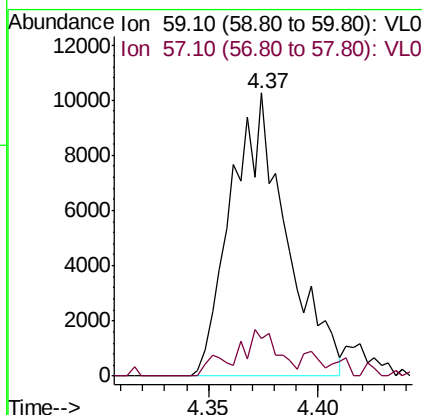
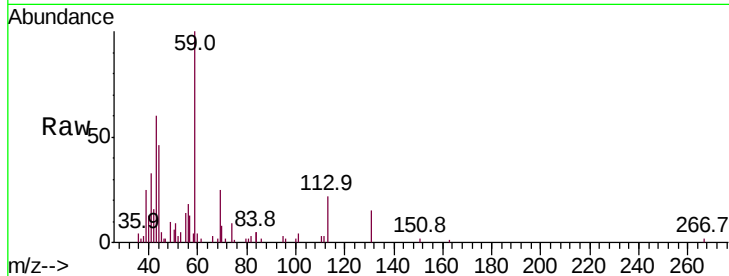
tert-Butyl alcohol
Concen: 0.225 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

Tot Ion: 59 Resp: 18049
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

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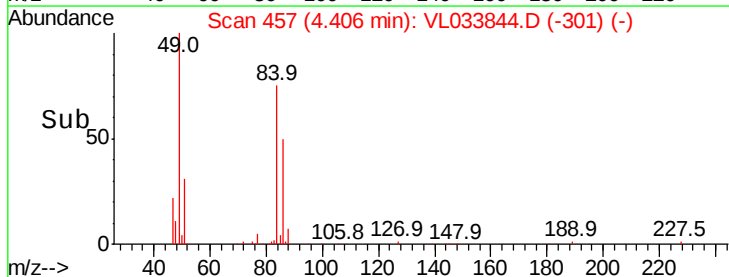
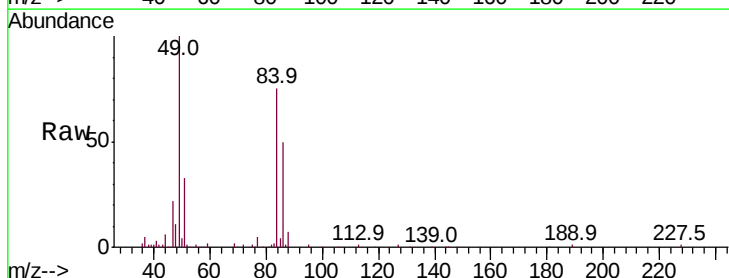
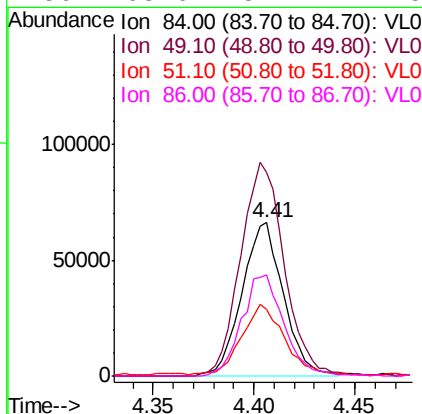
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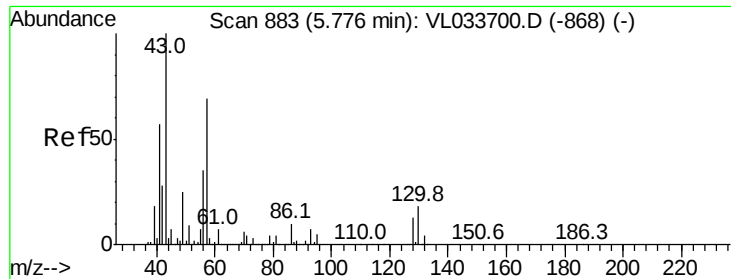


#20

Methylene Chloride
Concen: 2.502 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Tgt Ion: 84 Resp: 95348
Ion Ratio Lower Upper
84 100
49 132.6 112.8 169.2
51 42.8 33.4 50.0
86 65.6 51.7 77.5





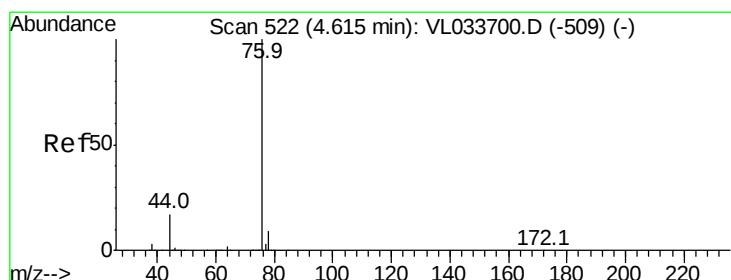
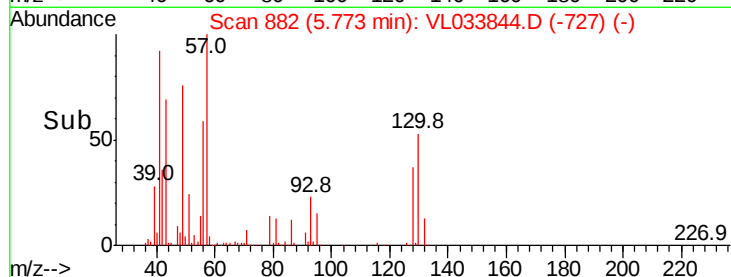
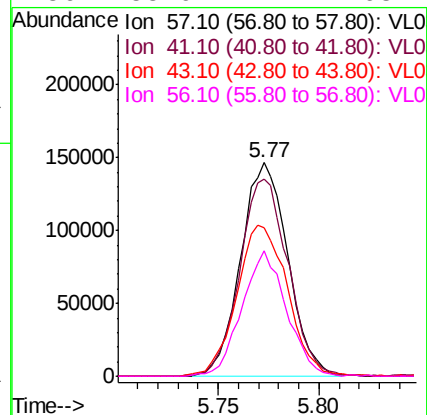
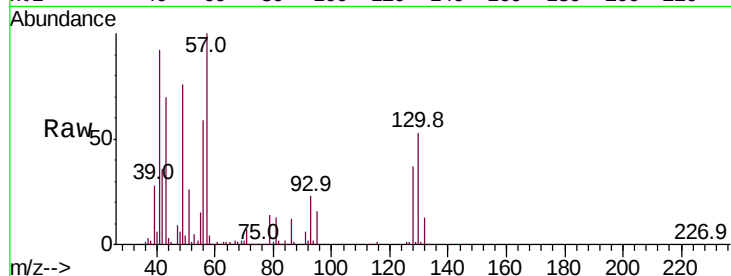
#26
Hexane
Concen: 3.195 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

Tot Ion	Ratio	Lower	Upper
57	100		
41	95.4	69.8	104.6
43	76.5	181.8	272.6#
56	55.9	42.1	63.1

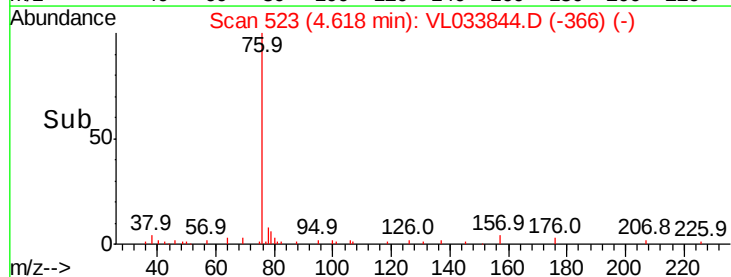
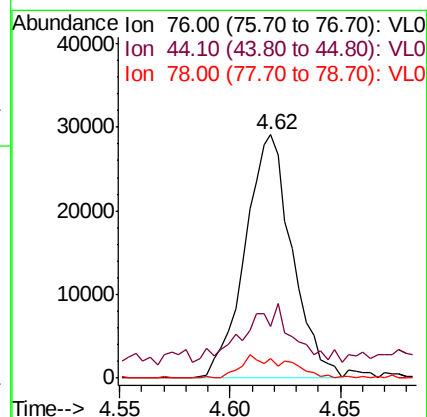
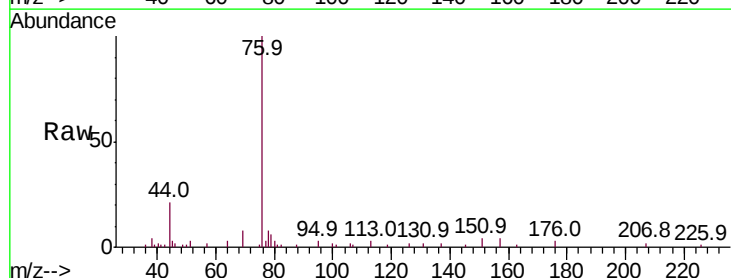
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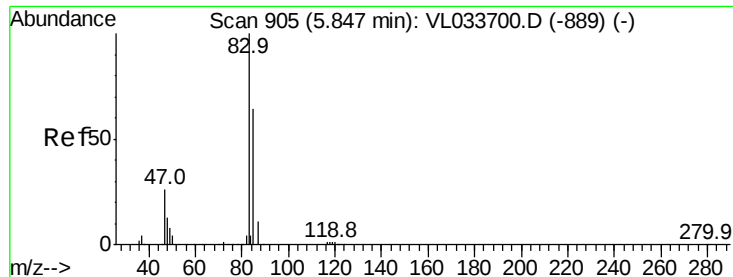
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#27
Carbon Disulfide
Concen: 0.421 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Tgt Ion	Ratio	Lower	Upper
76	100		
44	31.2	13.8	20.8#
78	10.1	7.4	11.0





#29

Chloroform

Concen: 0.651 ppbv

RT: 5.84 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-0

Tot Ion: 83 Resp: 89670

Ion Ratio Lower Upper

83 100

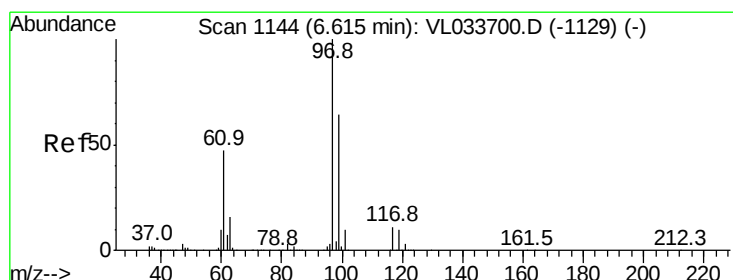
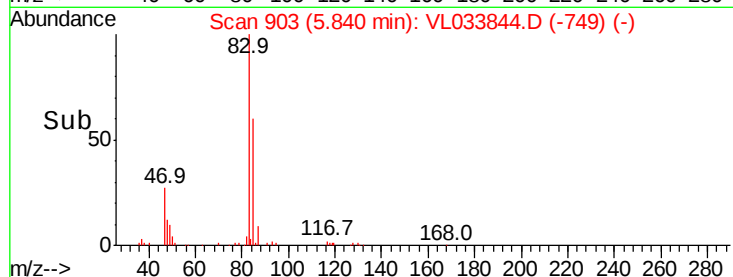
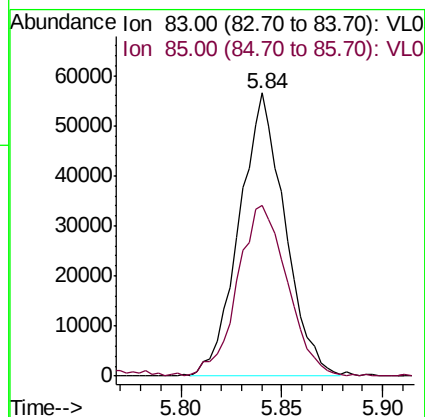
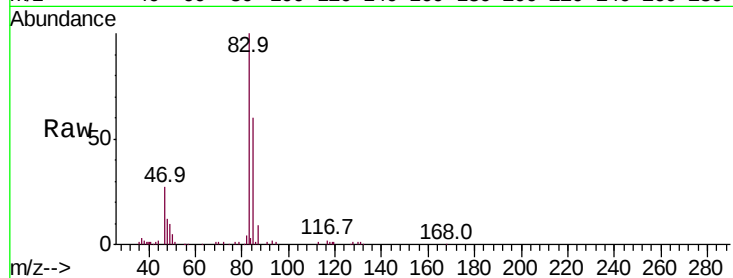
85 59.8 51.5 77.3

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 0.040 ppbv m

RT: 6.61 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

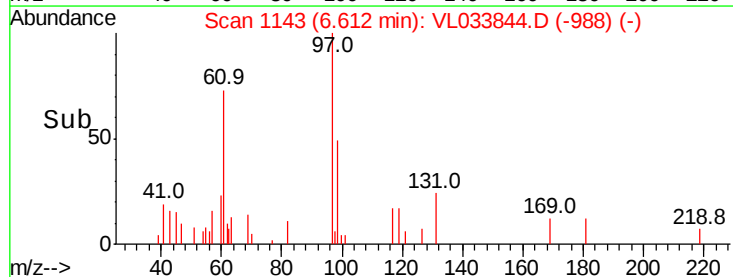
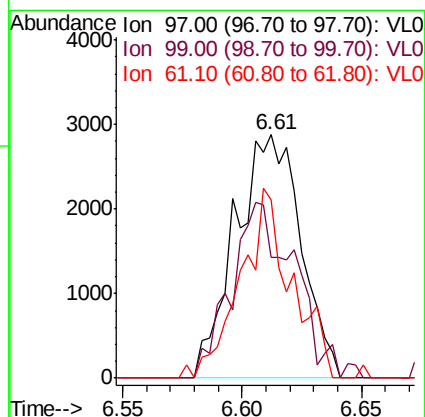
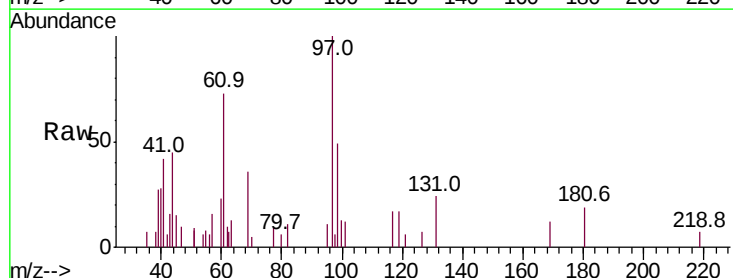
Tgt Ion: 97 Resp: 5501

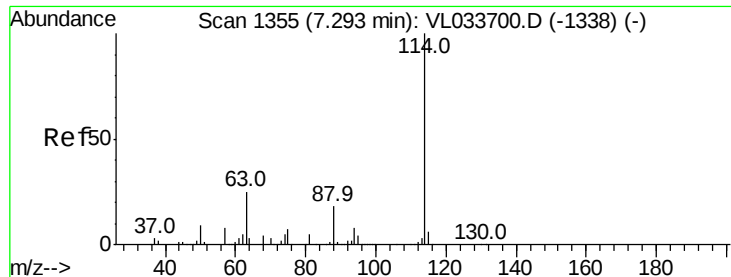
Ion Ratio Lower Upper

97 100

99 70.2 51.5 77.3

61 60.2 37.8 56.8#





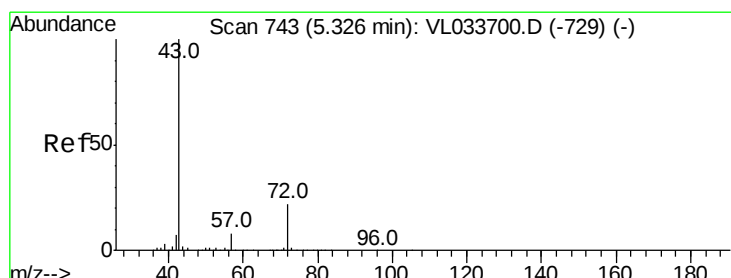
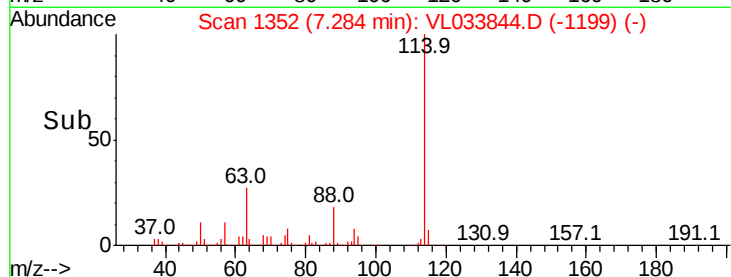
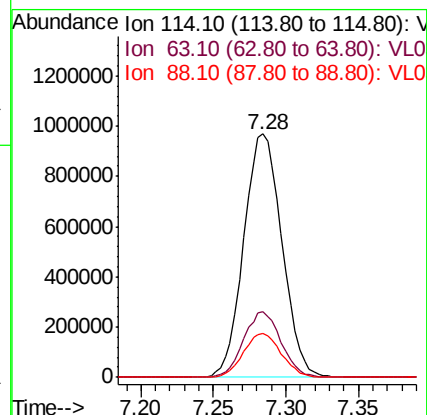
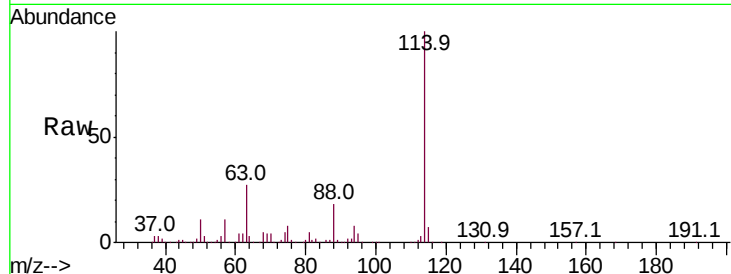
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033844.D
 Acq: 29 May 2019 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-25-20190522-0

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.9	31.3
88	18.0	14.3	21.5

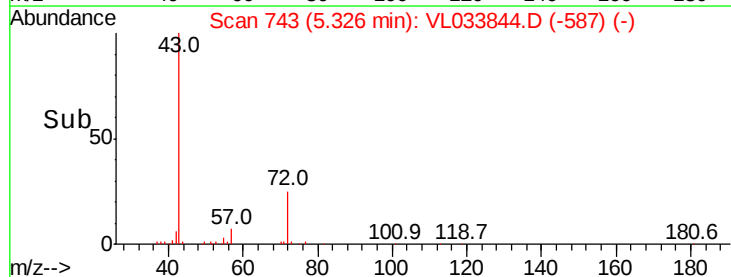
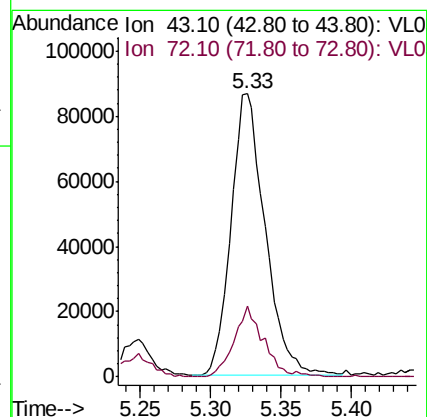
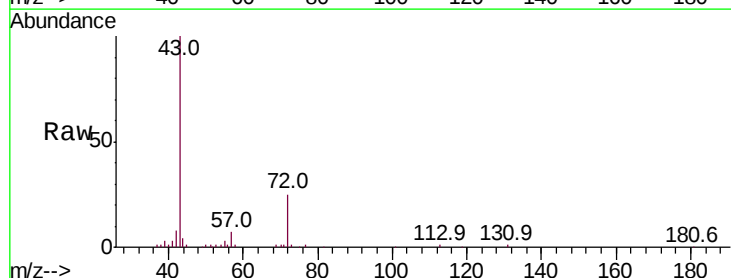
Manual Integrations
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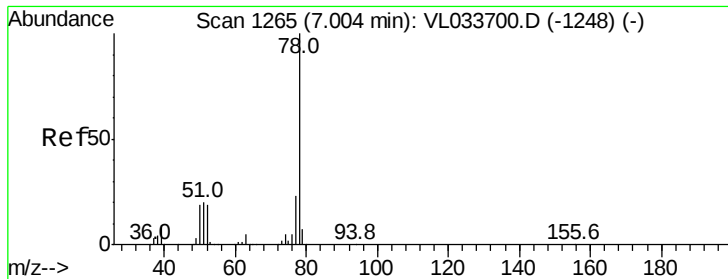
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#34
 2-Butanone
 Concen: 1.333 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: VL033844.D
 Acq: 29 May 2019 20:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.8	26.6





#36

Benzene

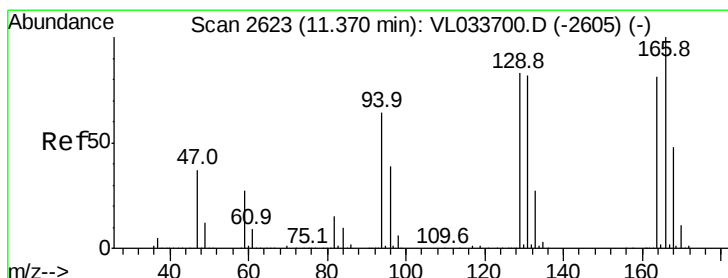
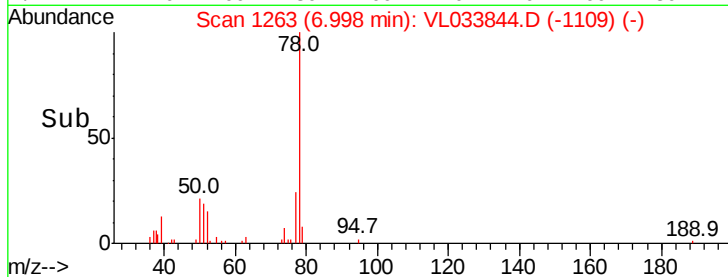
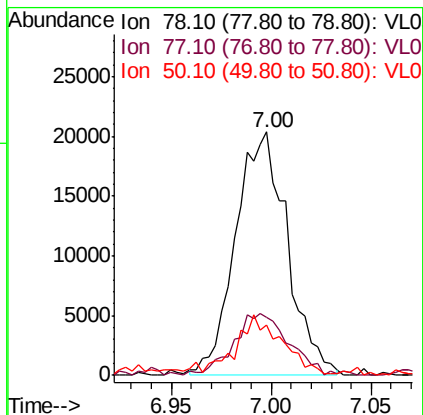
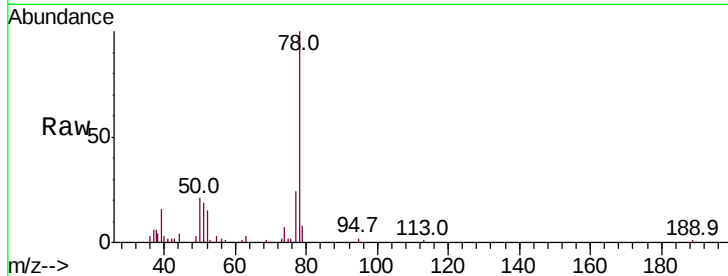
Concen: 0.228 ppbv m
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-0

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6
50	20.8	15.5	23.3

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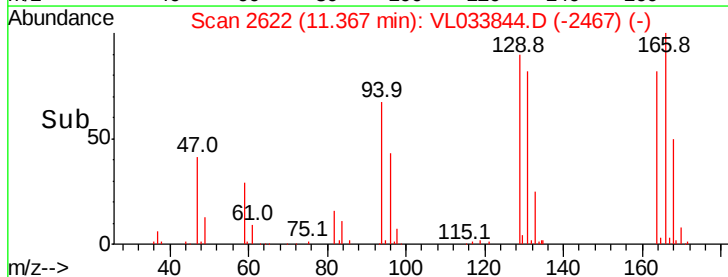
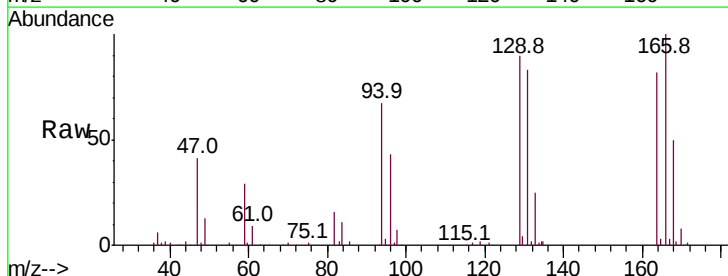
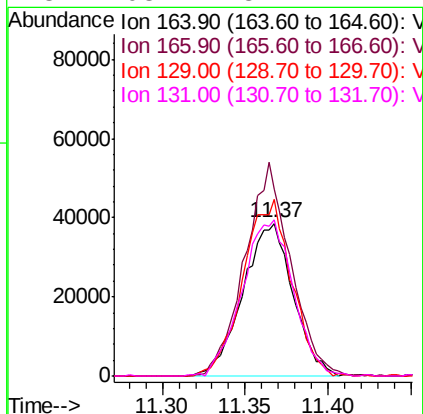


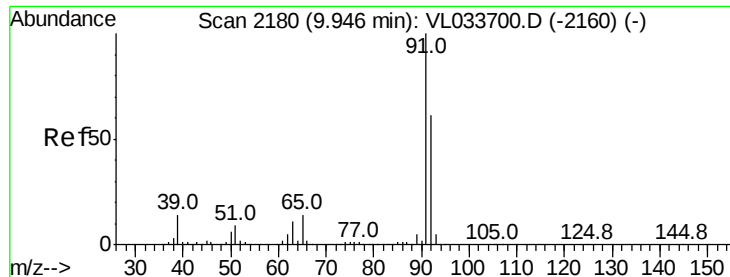
#52

Tetrachloroethene

Concen: 1.422 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033844.D
Acq: 29 May 2019 20:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.6	98.9	148.3
129	115.7	81.8	122.6
131	103.7	81.1	121.7





#53

Toluene

Concen: 1.519 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-0

Tot Ion: 91 Resp: 264966

Ion Ratio Lower Upper

91 100

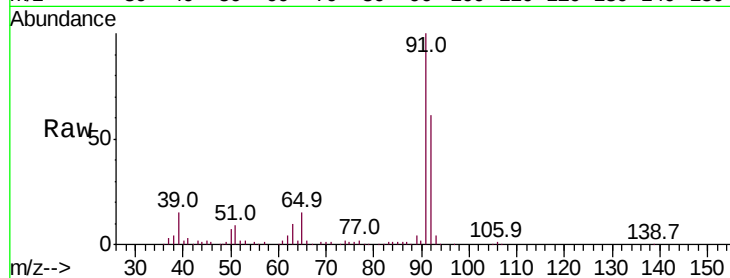
92 58.3 47.6 71.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

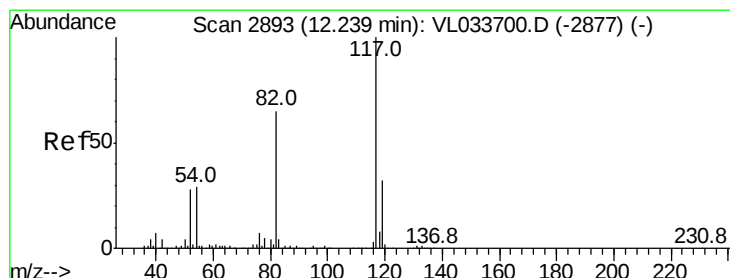
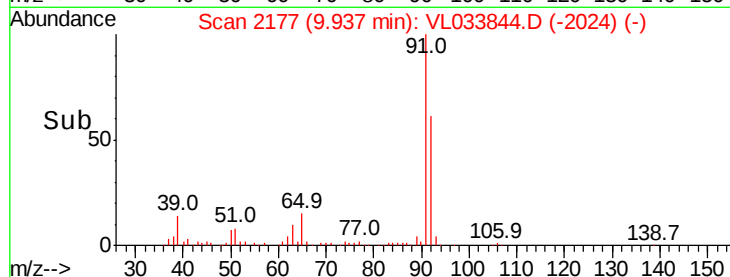
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

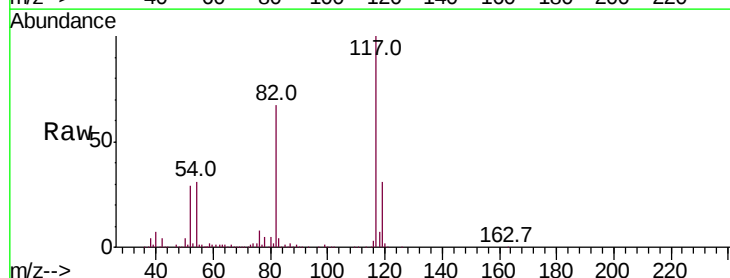
Tgt Ion: 117 Resp: 1651224

Ion Ratio Lower Upper

117 100

82 67.1 49.4 74.0

119 32.4 24.9 37.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1000000

800000

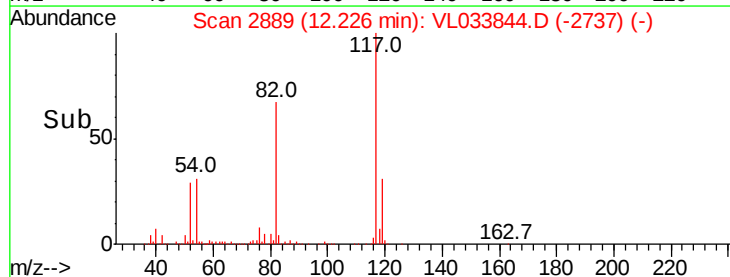
600000

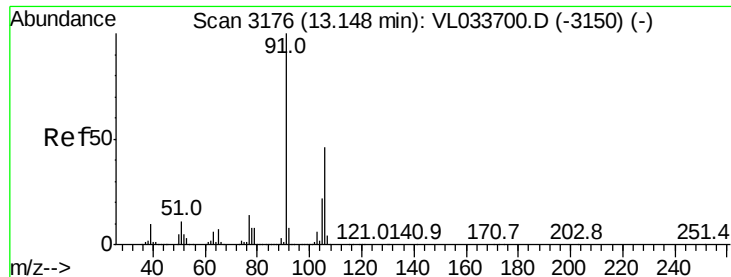
400000

200000

0

Time-->





#59

m/p-Xylene

Concen: 0.303 ppbv m

RT: 13.11 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL033844.D

Acq: 29 May 2019 20:48

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-0

Tot Ion: 91 Resp: 58005

Ion Ratio Lower Upper

91 100

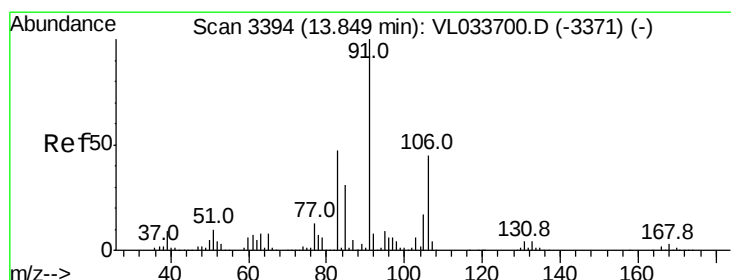
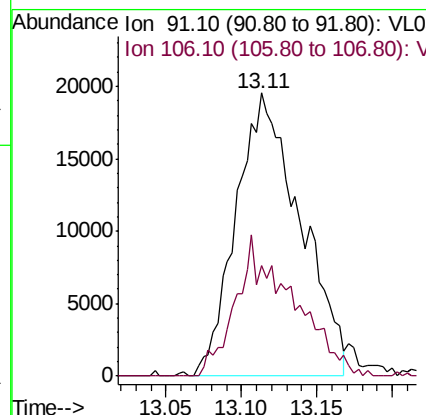
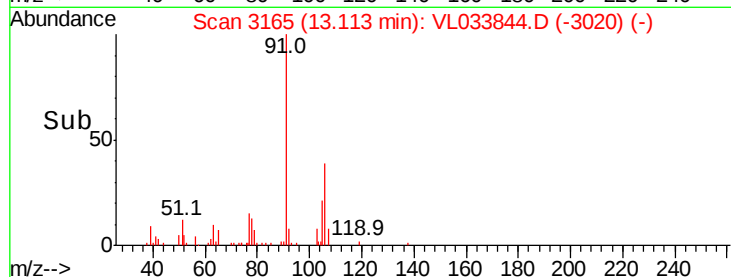
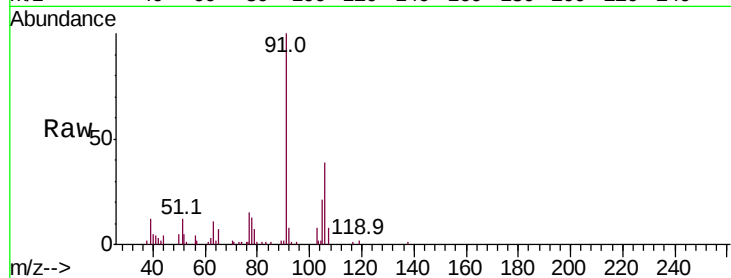
106 0.0 35.8 53.6#

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#60

o-Xylene

Concen: 0.138 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033844.D

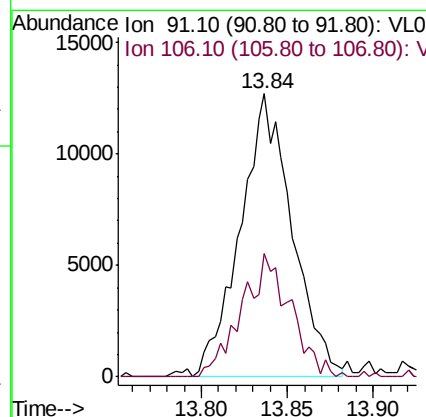
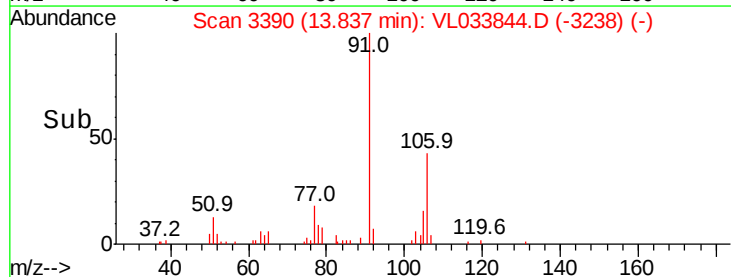
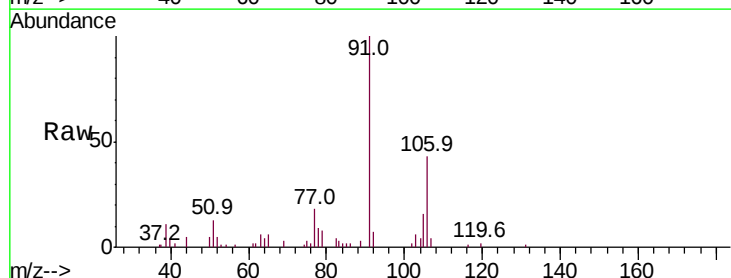
Acq: 29 May 2019 20:48

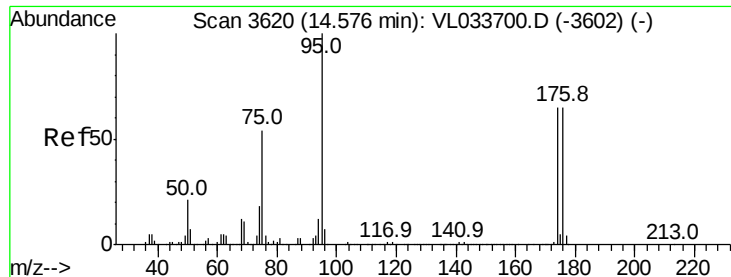
Tgt Ion: 91 Resp: 26601

Ion Ratio Lower Upper

91 100

106 41.0 21.6 64.8





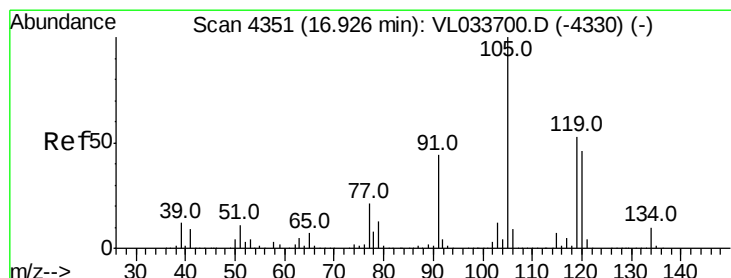
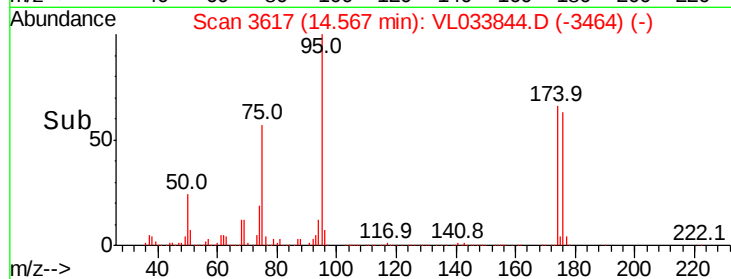
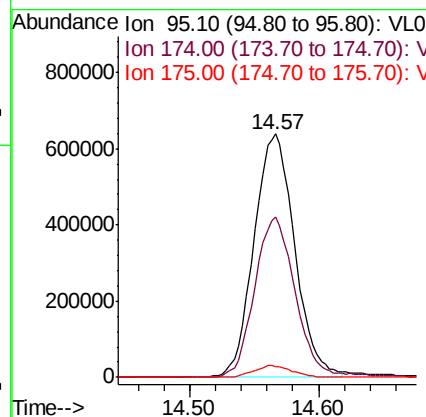
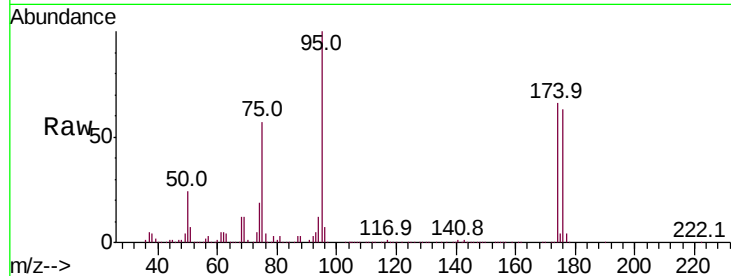
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.495 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL033844.D
 Acq: 29 May 2019 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-25-20190522-0

Tot Ion: 95 Resp: 1404883
 Ion Ratio Lower Upper
 95 100
 174 67.0 53.9 80.9
 175 4.8 3.8 5.8

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.138 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033844.D
 Acq: 29 May 2019 20:48

Tgt Ion: 105 Resp: 32187
 Ion Ratio Lower Upper
 105 100
 120 35.2 36.8 55.2#
 91 16.8 35.4 53.0#
 77 11.2 16.8 25.2#

