

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033294.D
 Acq On : 12 Mar 2019 22:19
 Operator : SY/AP
 Sample : K1805-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-SS-2

Manual Integrations
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MMDadoda
 3/14/2019 5:06:32 AM

Quant Time: Mar 13 17:56:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 14 07:17:55 2019
 QLast Update : Wed Mar 13 07:17:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	811547	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1768387	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.27	117	1655597	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	1350565	10.56	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	39508m	0.241	ppbv	
3) Chlorodifluoromethane	3.01	51	33233m	0.309	ppbv	
9) Propene	3.05	41	21533m	0.439	ppbv	
11) Trichlorofluoromethane	4.00	101	31007	0.191	ppbv	88
13) Ethanol	3.65	45	77128m	5.152	ppbv	
18) 1,1-Dichloroethene	4.35	96	5072m	0.123	ppbv	
19) Isopropyl Alcohol	4.04	45	31552m	0.419	ppbv	
20) Methylene Chloride	4.41	84	97432	2.354	ppbv	94
22) trans-1,2-Dichloroethene	4.96	96	52579	1.200	ppbv	93
26) Hexane	5.78	57	135186	1.501	ppbv #	40
29) Chloroform	5.84	83	32976	0.241	ppbv	93
31) cis-1,2-Dichloroethene	5.64	61	8247460	95.549	ppbv #	88
34) 2-Butanone	5.35	43	20687	0.177	ppbv	94
35) Carbon Tetrachloride	7.13	117	4128m	0.032	ppbv	
36) Benzene	7.01	78	68949	0.423	ppbv #	92
38) Trichloroethene	7.98	130	15000802	235.961	ppbv	90
52) Tetrachloroethene	11.51	164	79483539m	1329.507	ppbv	
53) Toluene	9.95	91	435013	2.314	ppbv	98
57) Chlorobenzene	12.34	112	16428m	0.132	ppbv	
59) m/p-Xylene	13.15	91	45849m	0.241	ppbv	

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

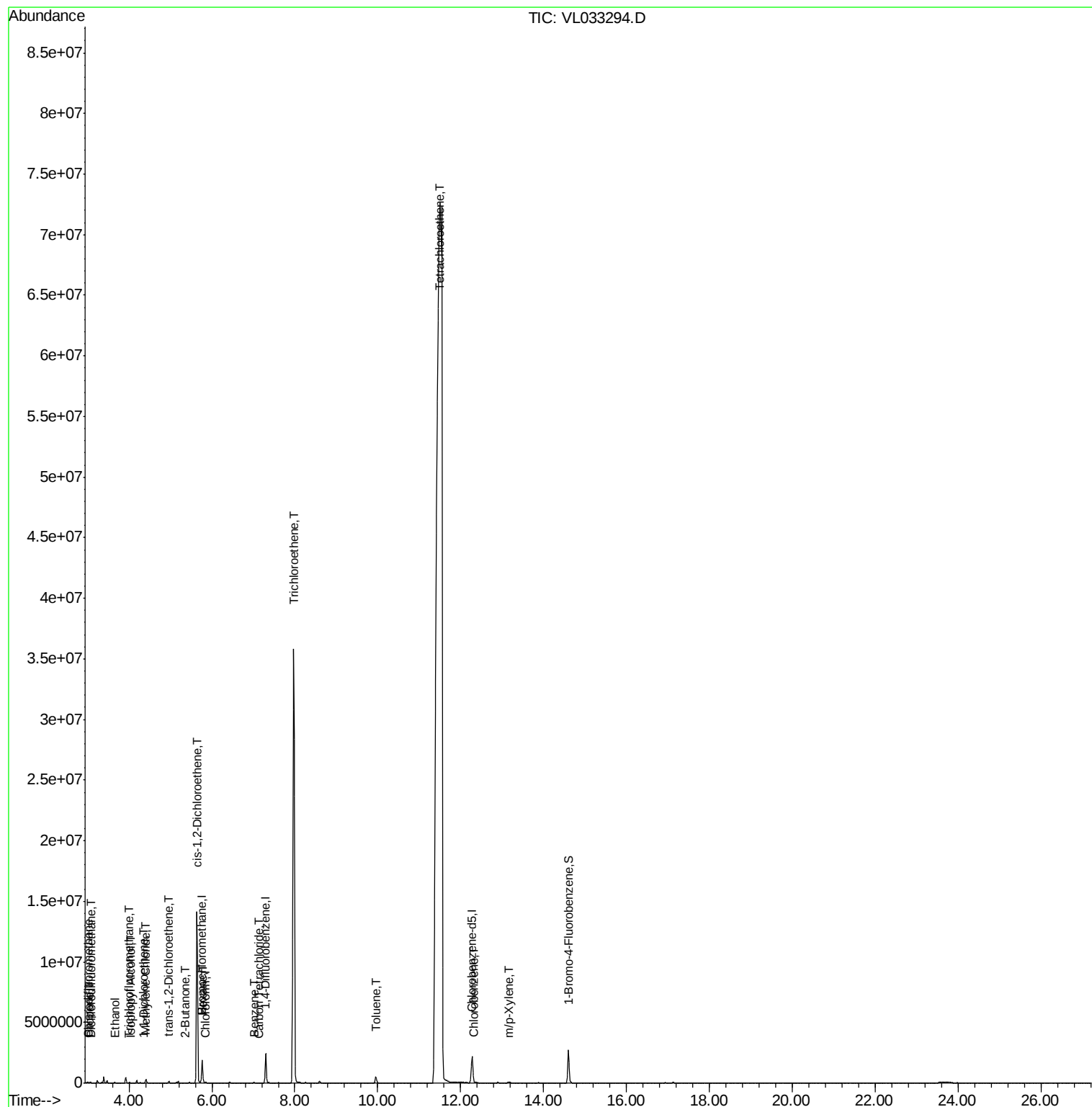
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033294.D
Acq On : 12 Mar 2019 22:19
Operator : SY/AP
Sample : K1805-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

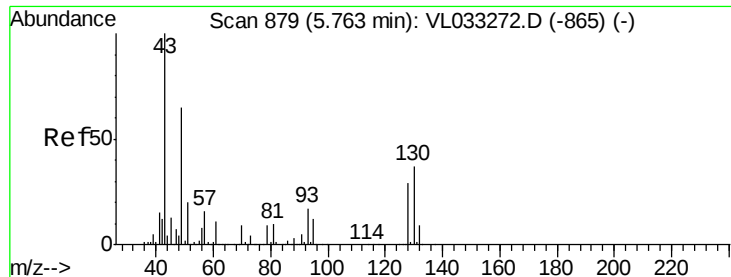
Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

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Quant Time: Mar 13 17:56:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033294.D

Acq: 12 Mar 2019 22:19

Instrument :

MSVOA_L

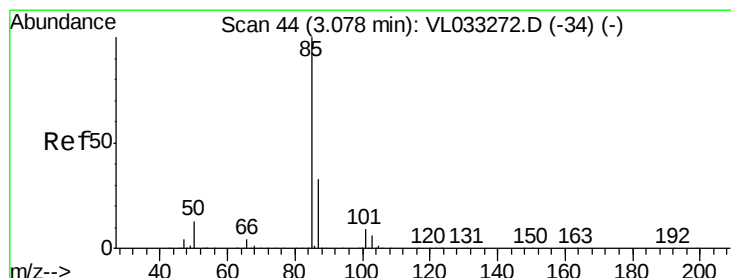
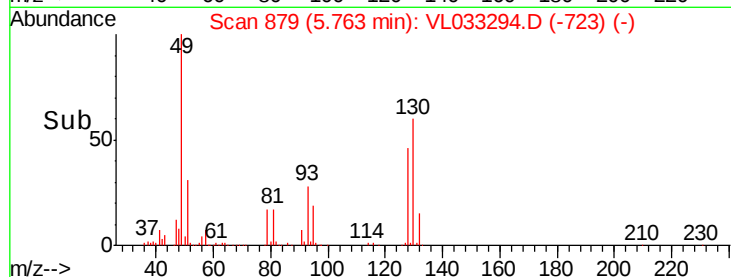
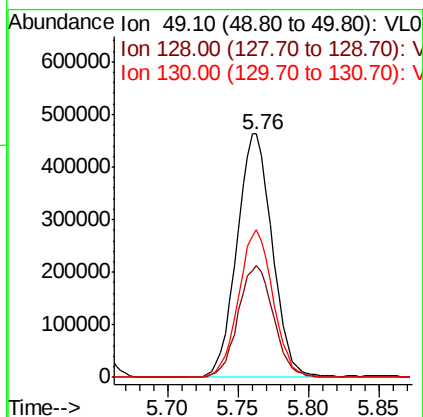
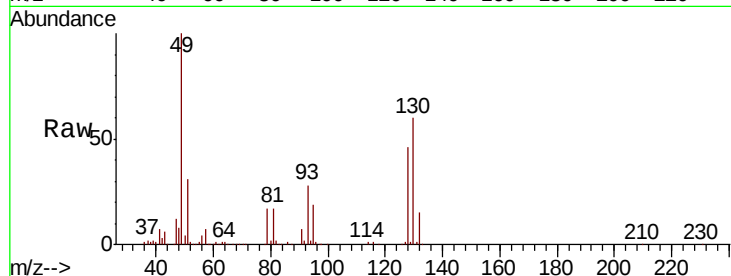
ClientSampleId :

ST-SS-2

Tgt Ion:	49	Resp:	811547
Ion Ratio	Lower	Upper	
49	100		
128	46.1	23.3	69.9
130	59.3	30.0	90.1

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#2

Dichlorodifluoromethane

Concen: 0.241 ppbv m

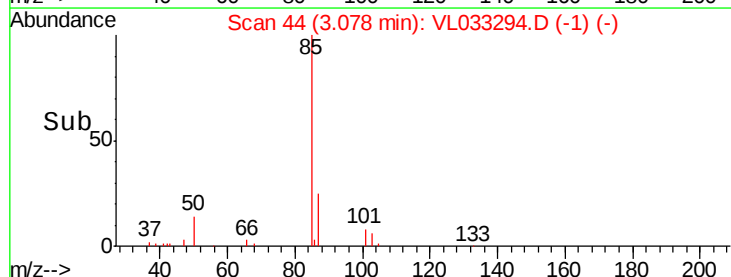
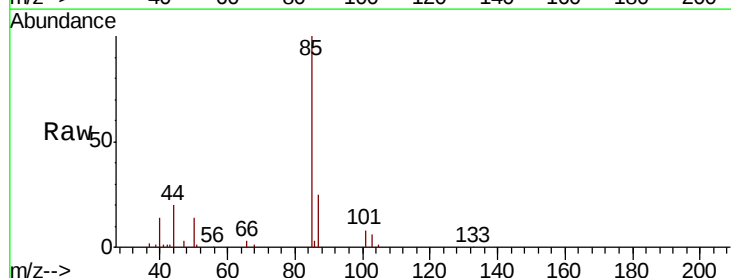
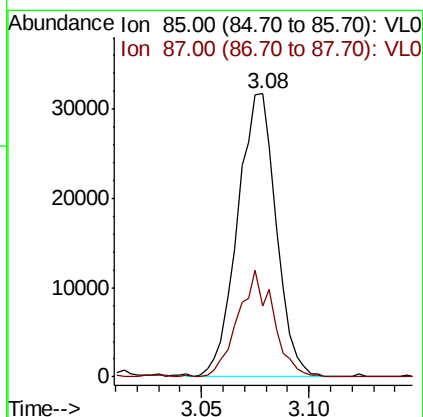
RT: 3.08 min Scan# 44

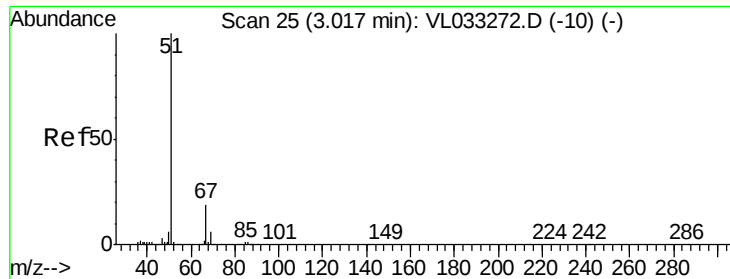
Delta R.T. 0.00 min

Lab File: VL033294.D

Acq: 12 Mar 2019 22:19

Tgt Ion:	85	Resp:	39508
Ion Ratio	Lower	Upper	
85	100		
87	25.1	26.4	39.6#





#3

Chlorodifluoromethane

Concen: 0.309 ppbv m

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033294.D

Acq: 12 Mar 2019 22:19

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2

Tgt Ion: 51 Resp: 33233

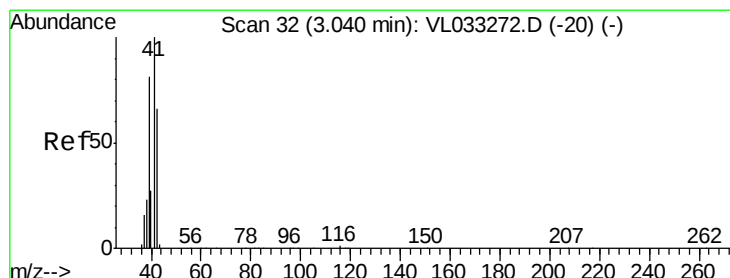
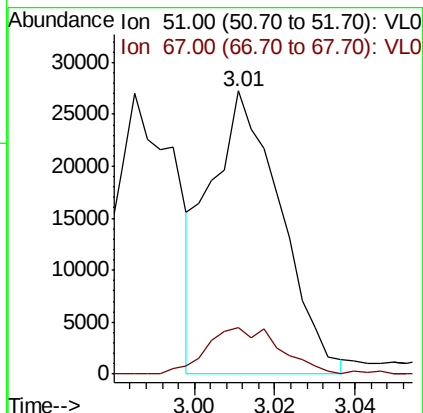
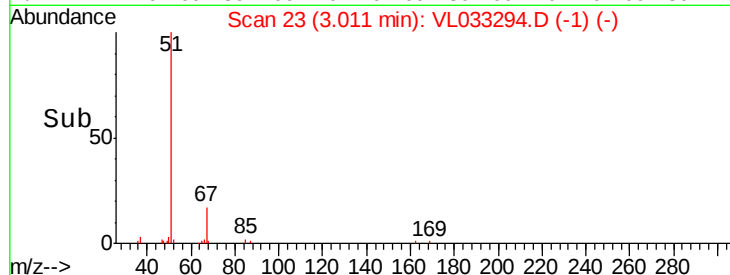
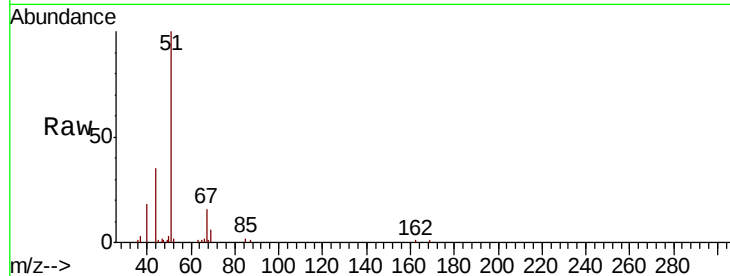
Ion Ratio Lower Upper

51 100

67 17.6 15.0 22.4

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#9

Propene

Concen: 0.439 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033294.D

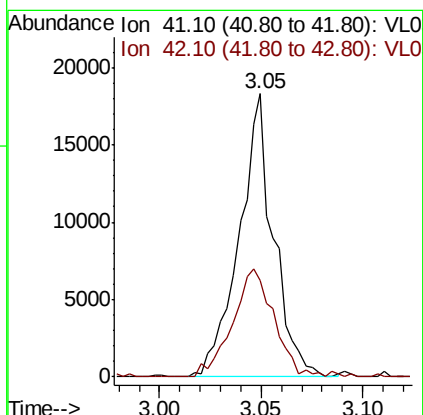
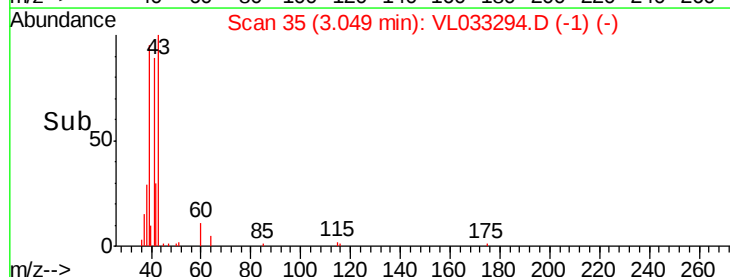
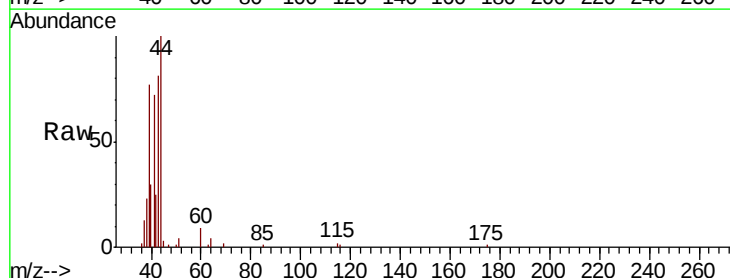
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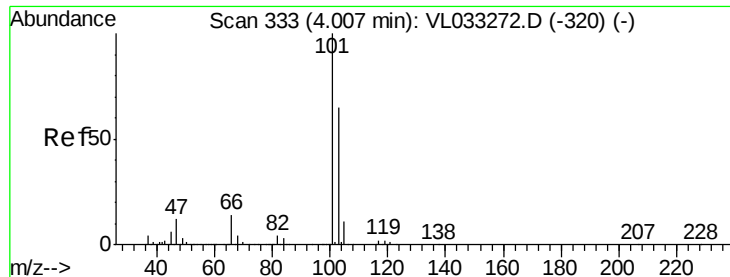
Tgt Ion: 41 Resp: 21533

Ion Ratio Lower Upper

41 100

42 204.2 54.6 82.0#





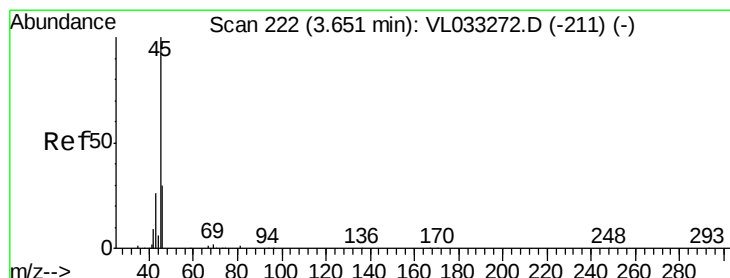
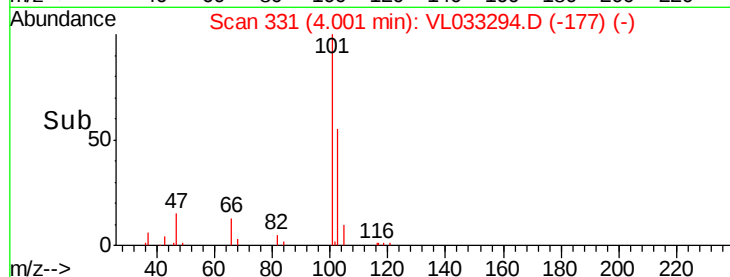
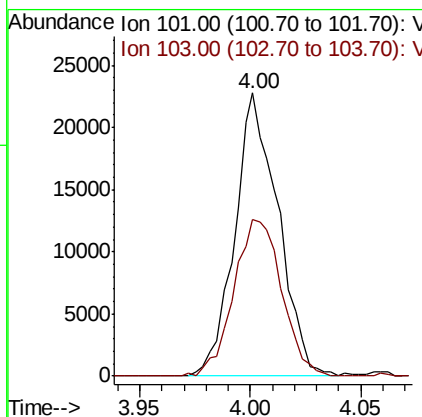
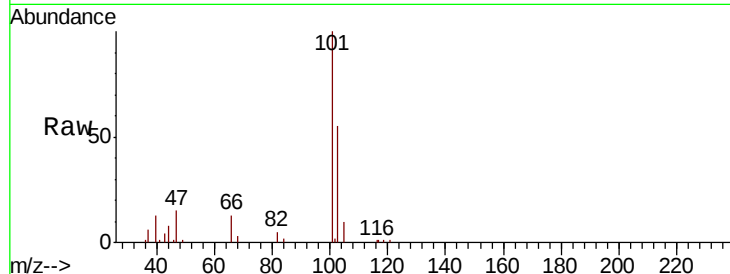
#11
Trichlorofluoromethane
Concen: 0.191 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampled :
ST-SS-2

Tgt Ion: 101 Resp: 31007
Ion Ratio Lower Upper
101 100
103 55.4 51.8 77.8

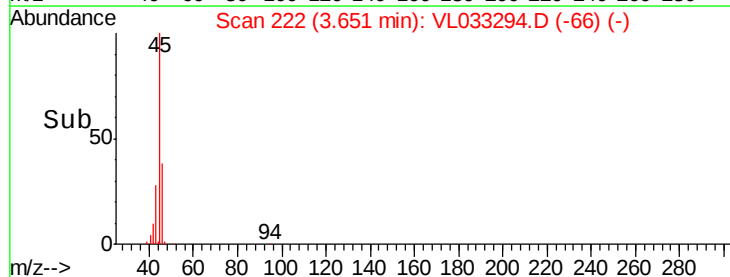
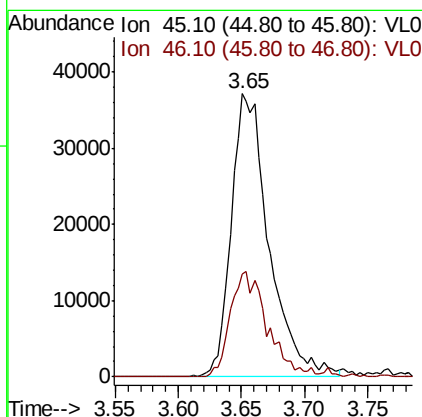
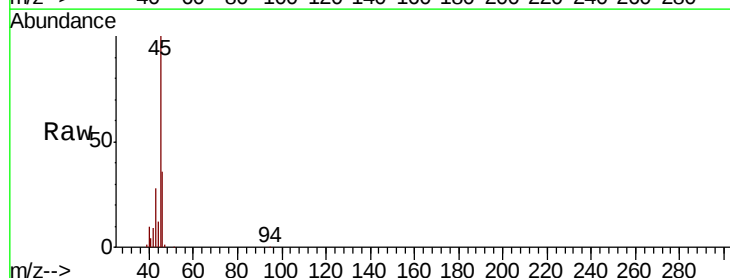
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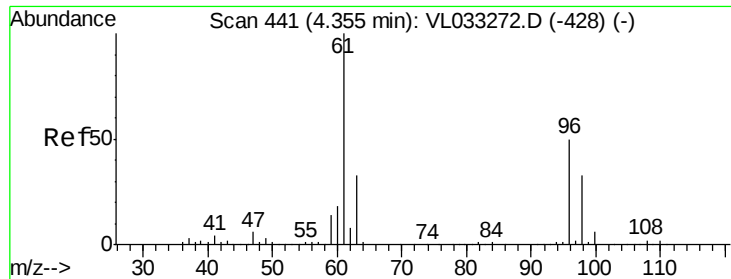
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#13
Ethanol
Concen: 5.152 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion: 45 Resp: 77128
Ion Ratio Lower Upper
45 100
46 36.3 13.9 55.7





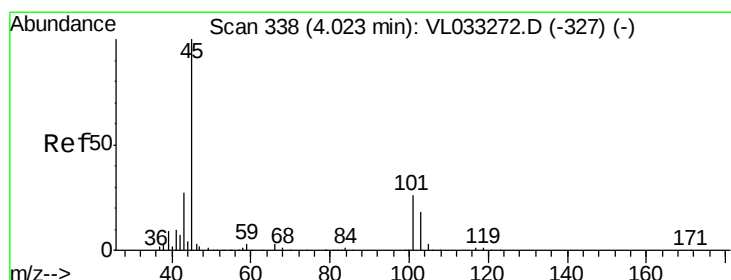
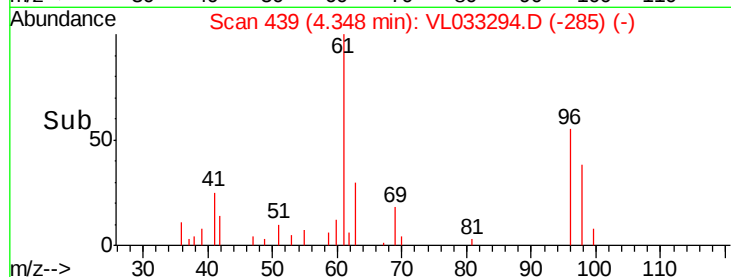
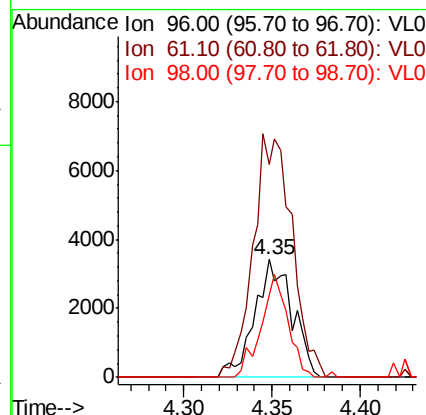
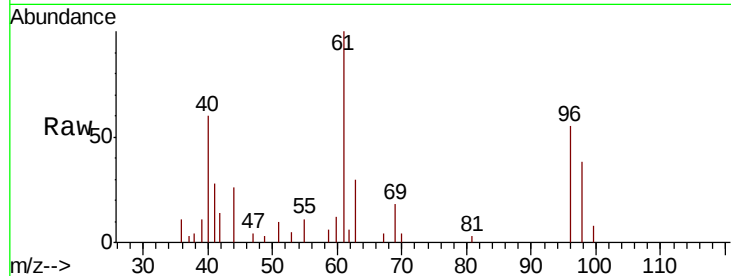
#18
 1,1-Dichloroethene
 Concen: 0.123 ppbv m
 RT: 4.35 min Scan# 439
 Delta R.T. -0.01 min
 Lab File: VL033294.D
 Acq: 12 Mar 2019 22:19

Instrument :
 MSVOA_L
 ClientSampled :
 ST-SS-2

Tgt Ion: 96 Resp: 5072
 Ion Ratio Lower Upper
 96 100
 61 180.9 158.9 238.3
 98 69.4 52.4 78.6

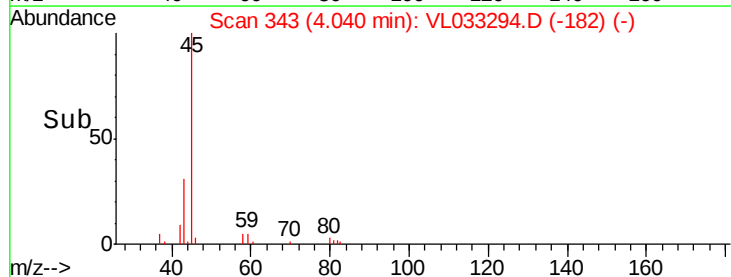
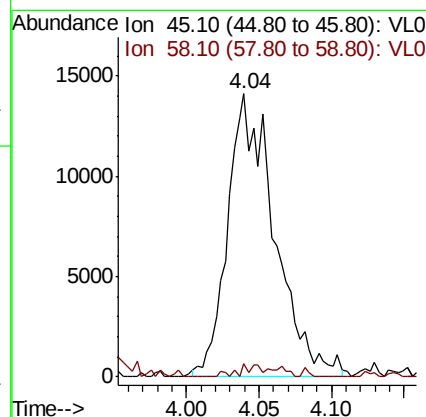
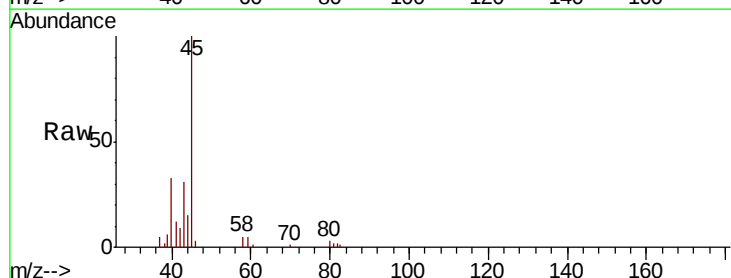
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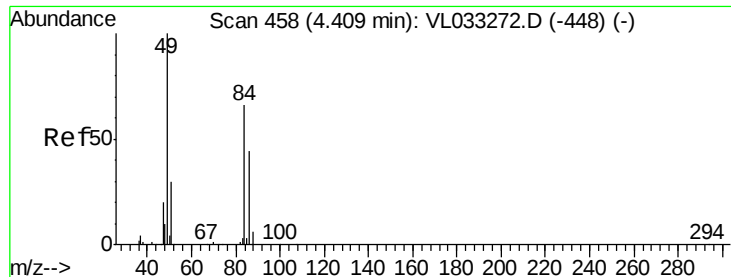
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#19
 Isopropyl Alcohol
 Concen: 0.419 ppbv m
 RT: 4.04 min Scan# 343
 Delta R.T. 0.02 min
 Lab File: VL033294.D
 Acq: 12 Mar 2019 22:19

Tgt Ion: 45 Resp: 31552
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#





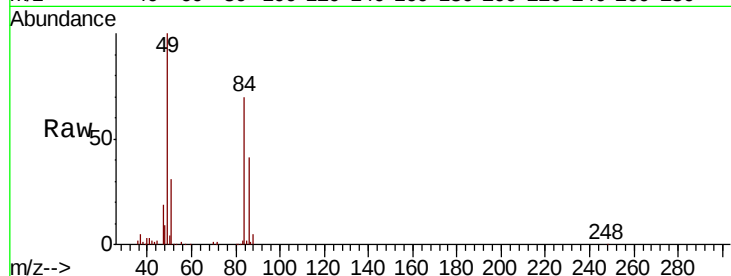
#20
Methylene Chloride
Concen: 2.354 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

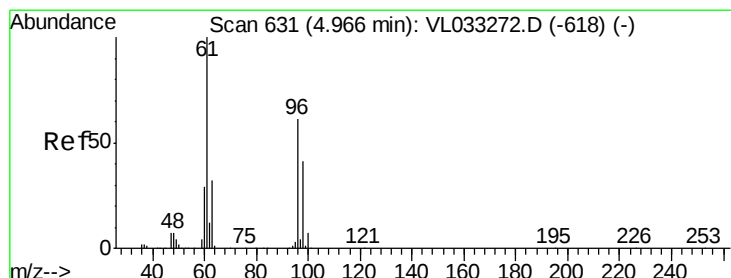
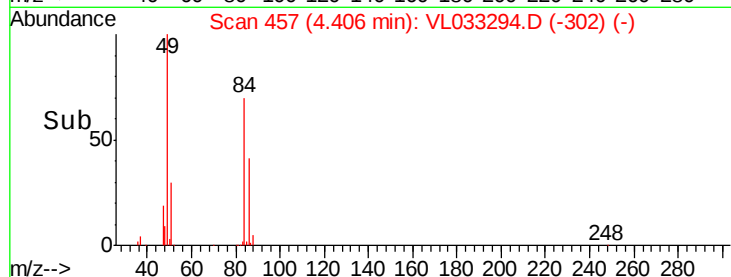
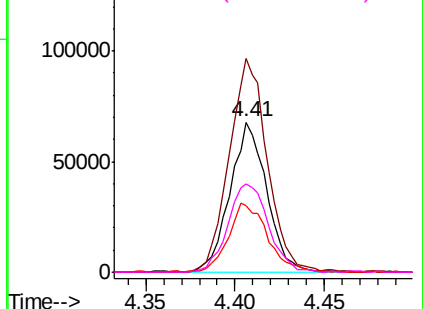
Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.8	120.3	180.5
51	44.3	36.2	54.4
86	58.6	52.5	78.7

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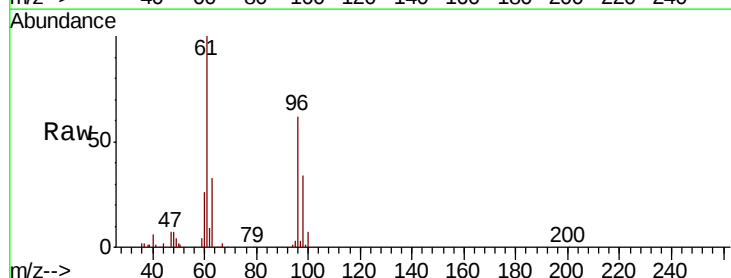


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

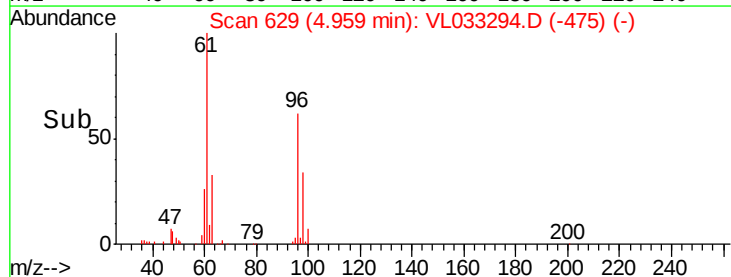
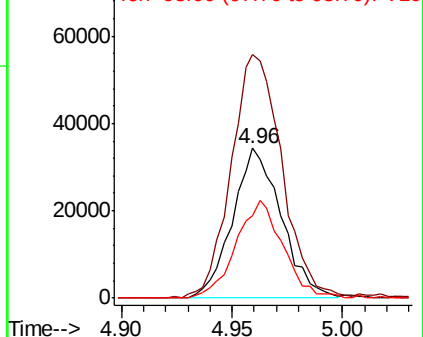


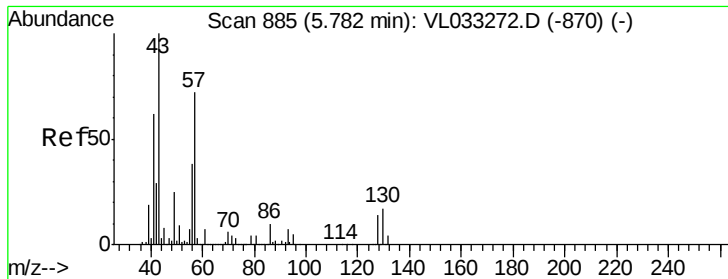
#22
trans-1,2-Dichloroethene
Concen: 1.200 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.0	131.6	197.4
98	55.1	54.1	81.1



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





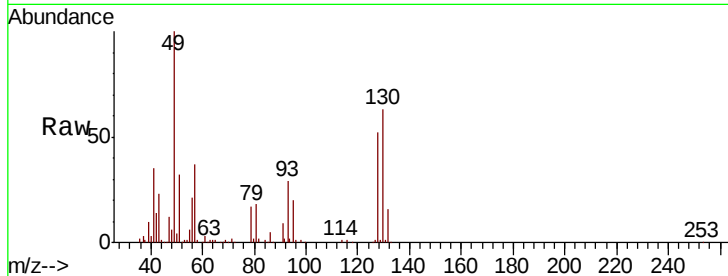
#26
Hexane
Concen: 1.501 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.5	70.7	106.1
43	70.0	178.6	267.8#
56	54.6	41.3	61.9

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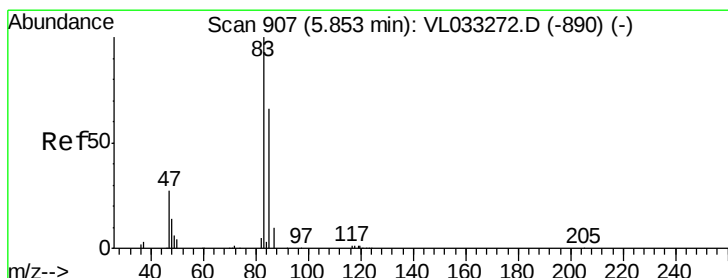
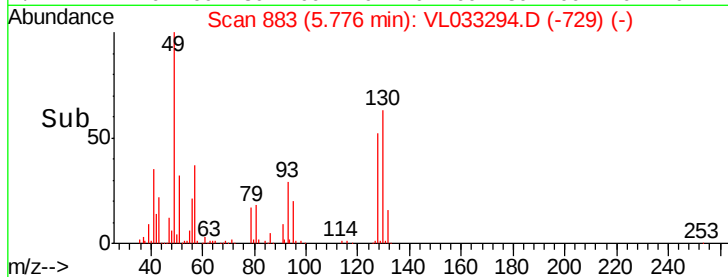
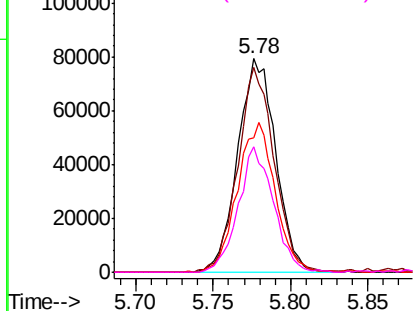
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

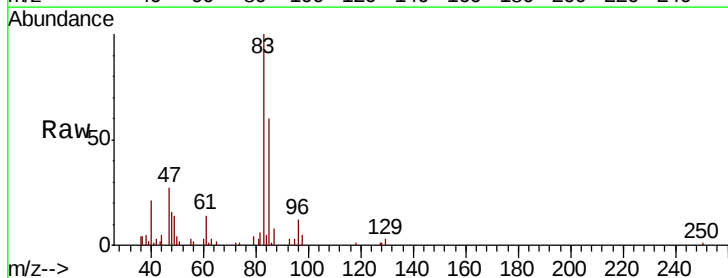
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.241 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

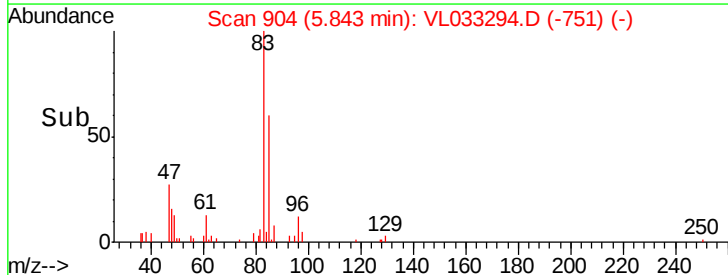
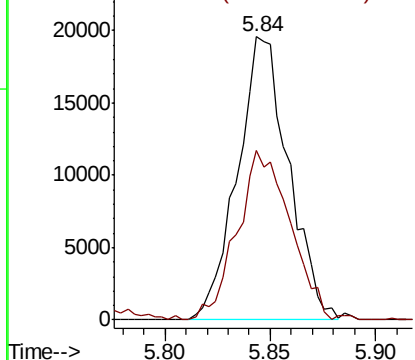
Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.9	52.5	78.7

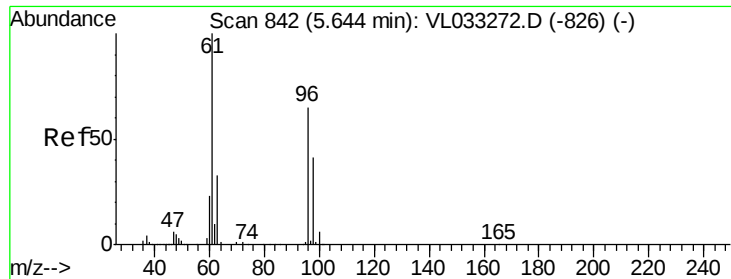


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#31

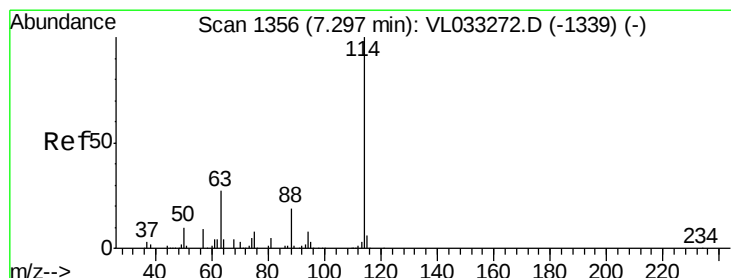
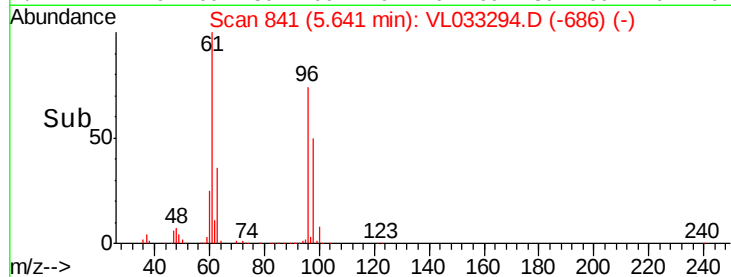
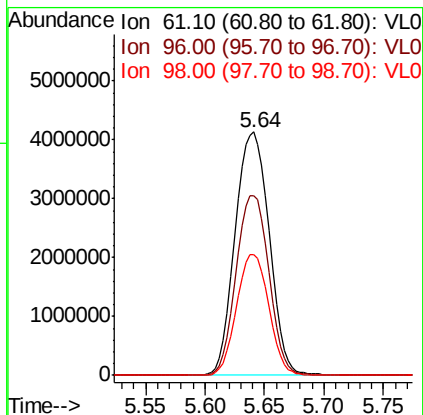
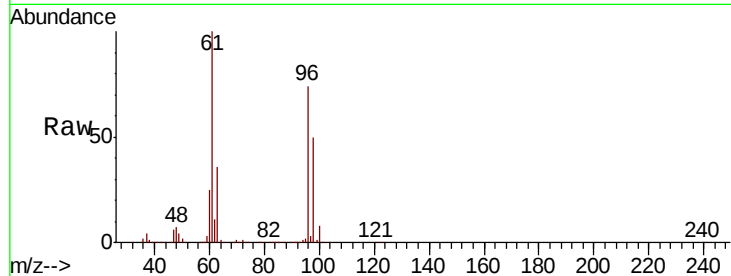
cis-1,2-Dichloroethene
 Concen: 95.549 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033294.D
 Acq: 12 Mar 2019 22:19

Instrument :
 MSVOA_L
 ClientSampled :
 ST-SS-2

Tgt Ion: 61 Resp: 8247460
 Ion Ratio Lower Upper
 61 100
 96 73.9 51.8 77.8
 98 49.7 32.9 49.3#

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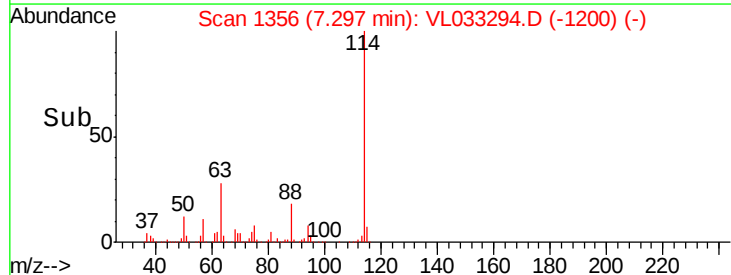
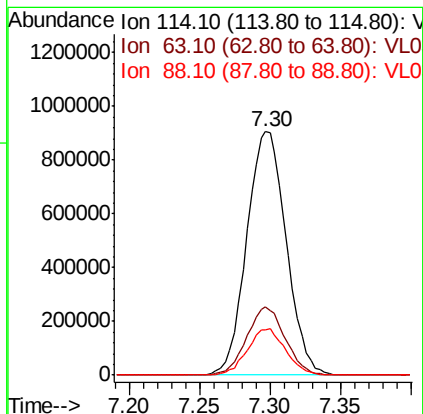
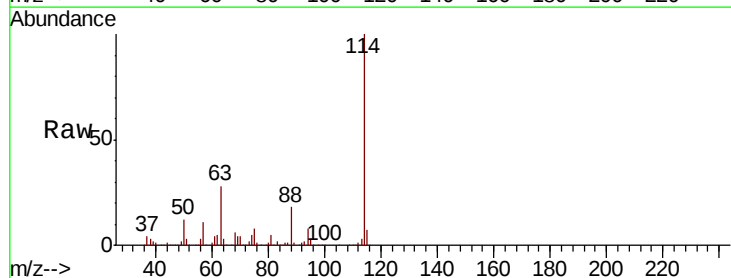
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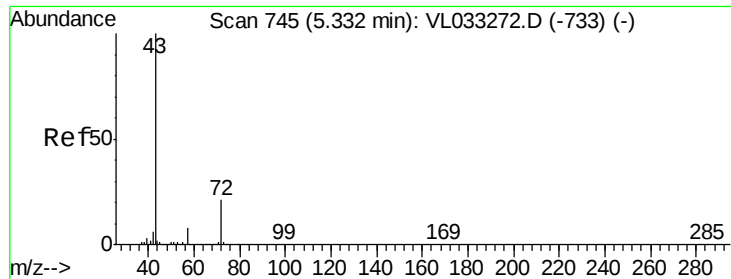


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033294.D
 Acq: 12 Mar 2019 22:19

Tgt Ion: 114 Resp: 1768387
 Ion Ratio Lower Upper
 114 100
 63 27.4 21.5 32.3
 88 18.4 14.6 22.0





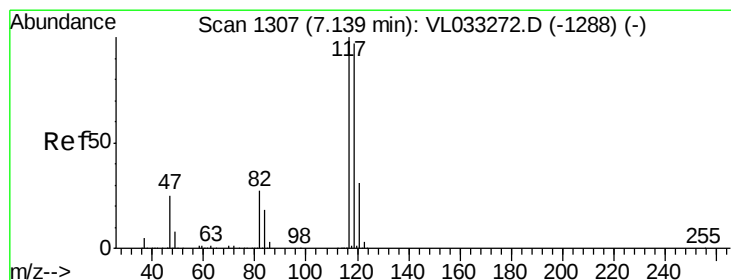
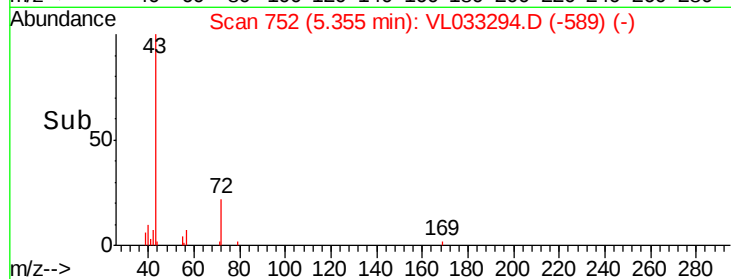
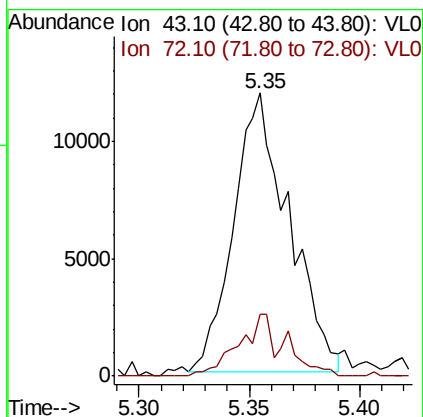
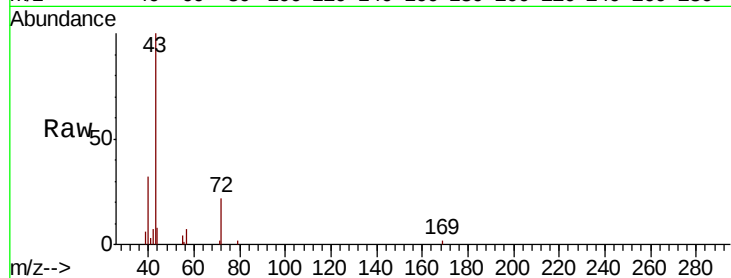
#34
2-Butanone
Concen: 0.177 ppbv
RT: 5.35 min Scan# 752
Delta R.T. 0.02 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.4	17.0	25.6

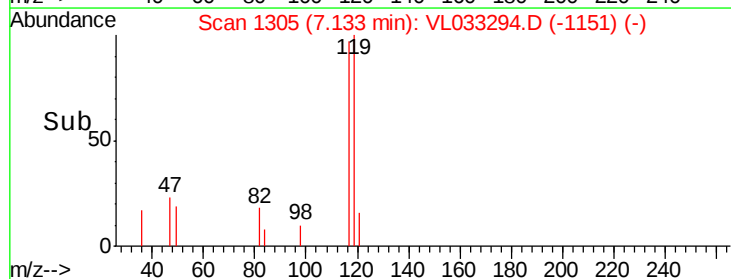
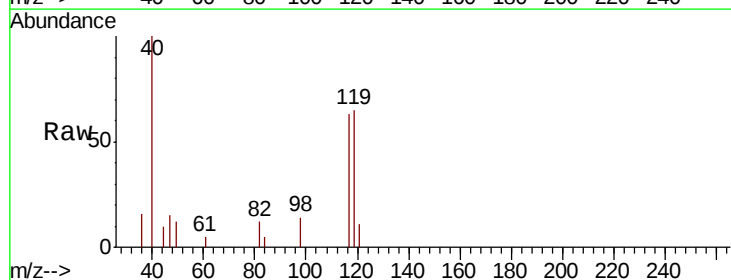
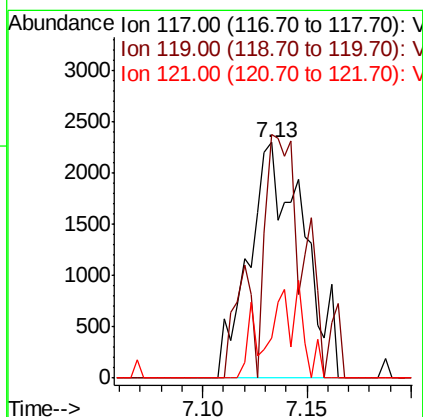
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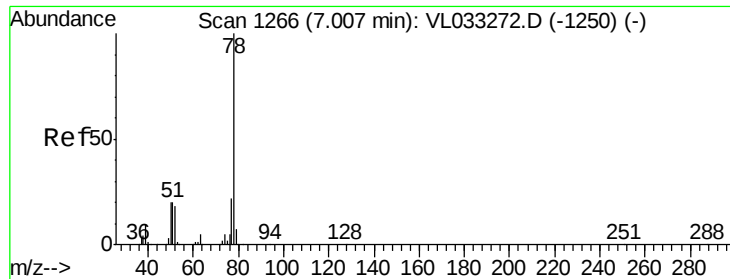
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#35
Carbon Tetrachloride
Concen: 0.032 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.2	77.4	116.0
121	16.9	24.9	37.3#





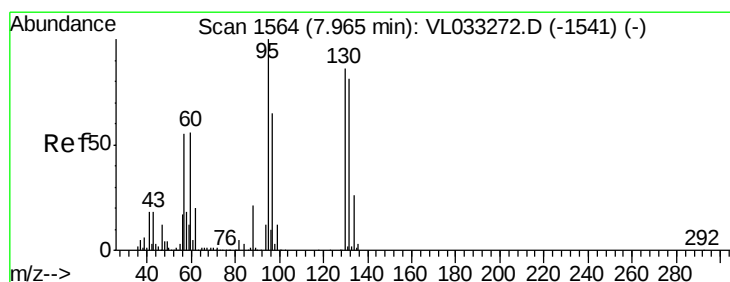
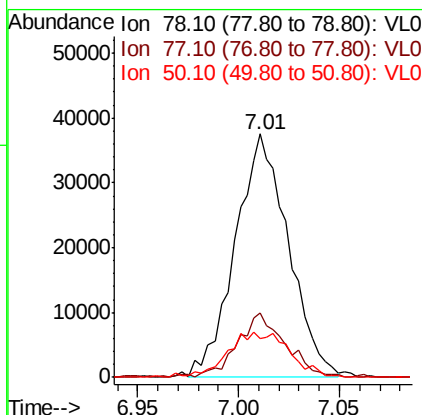
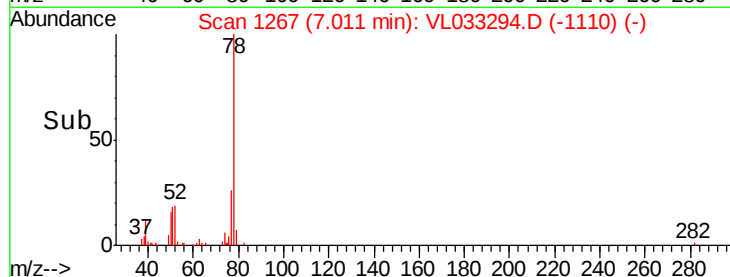
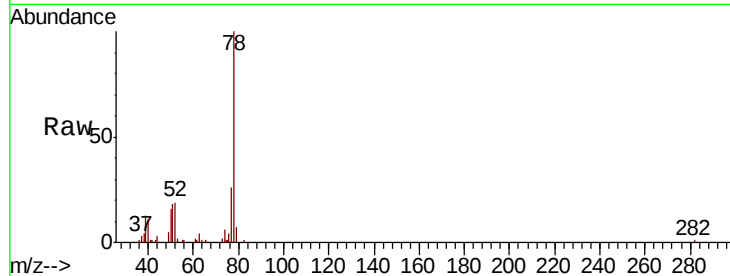
#36
Benzene
Concen: 0.423 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	17.7	26.5
50	15.3	15.7	23.5#

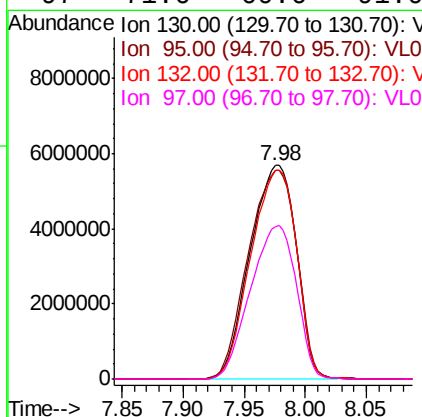
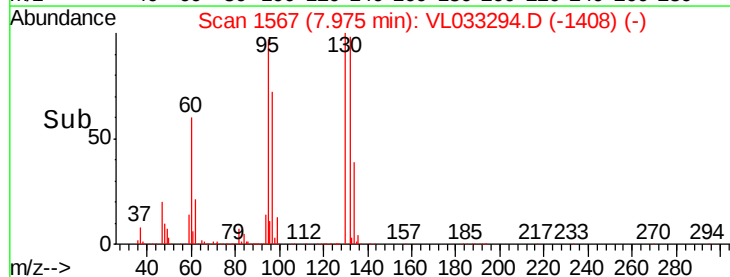
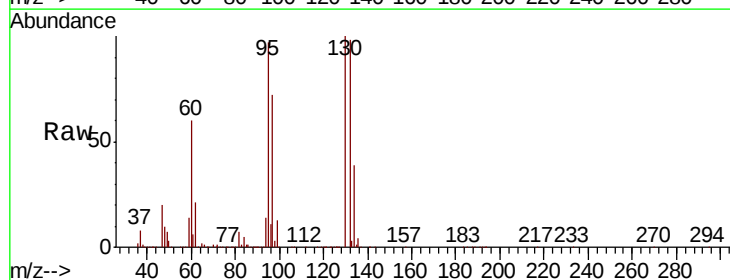
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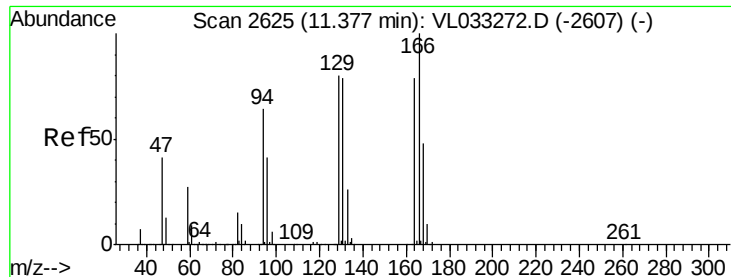
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#38
Trichloroethene
Concen: 235.961 ppbv
RT: 7.98 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	93.3	139.9
132	98.0	75.4	113.2
97	71.6	60.6	91.0





#52

Tetrachloroethene

Concen: 1329.507 ppbv m

RT: 11.51 min Scan# 2667

Delta R.T. 0.14 min

Lab File: VL033294.D

Acq: 12 Mar 2019 22:19

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-2

Tgt Ion:164 Resp:79483539

Ion Ratio Lower Upper

164 100

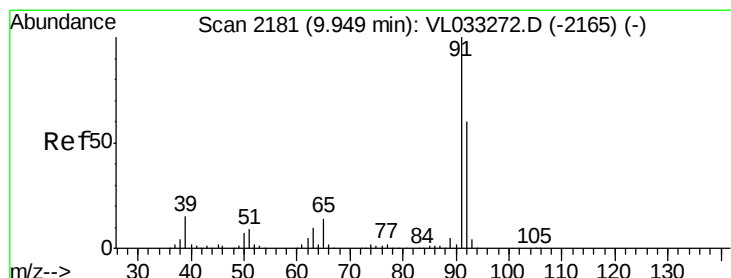
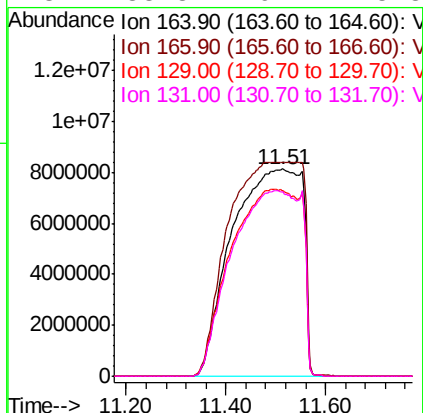
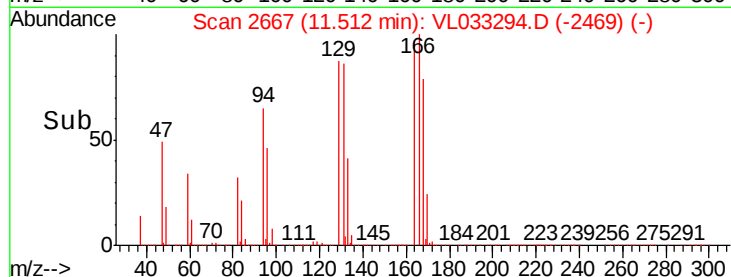
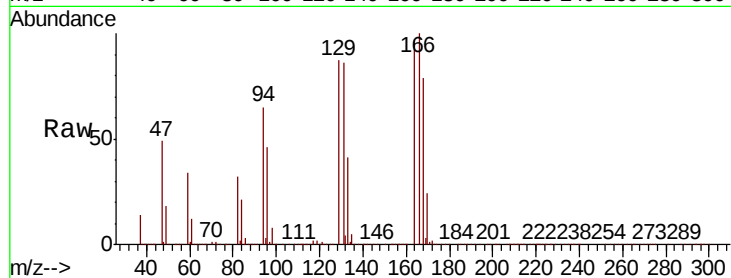
166 103.1 100.8 151.2

129 89.7 80.6 121.0

131 88.8 79.2 118.8

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#53

Toluene

Concen: 2.314 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033294.D

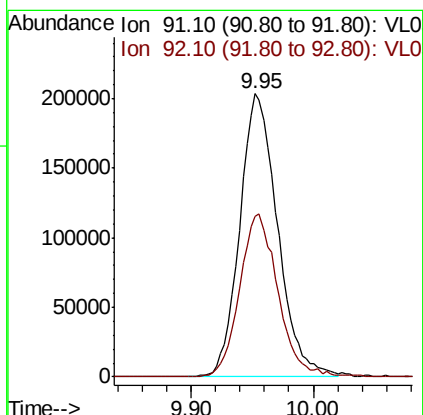
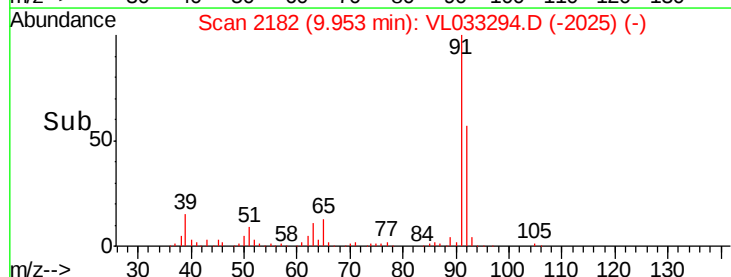
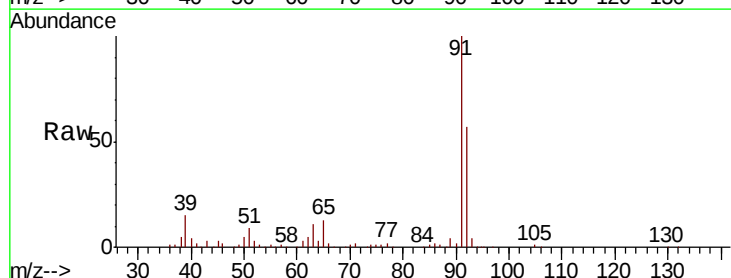
Acq: 12 Mar 2019 22:19

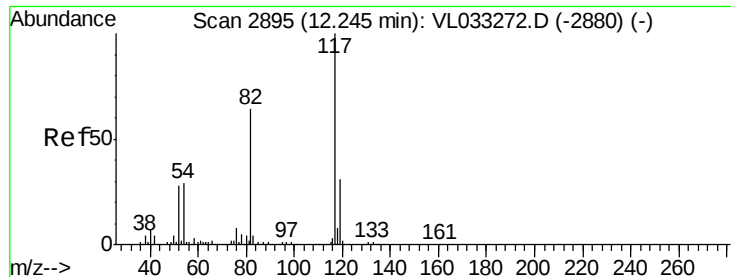
Tgt Ion: 91 Resp: 435013

Ion Ratio Lower Upper

91 100

92 58.5 47.8 71.8





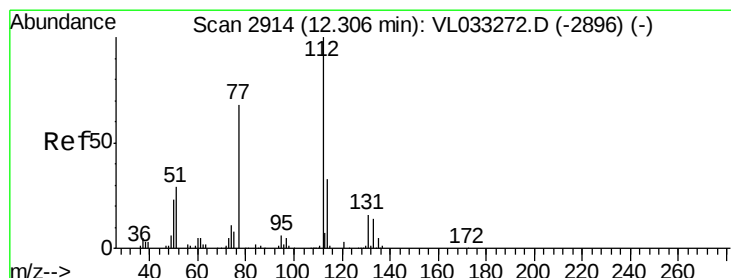
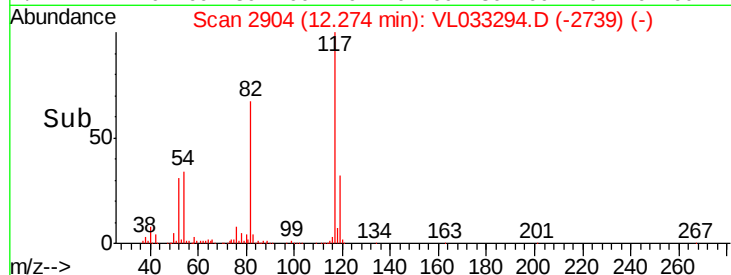
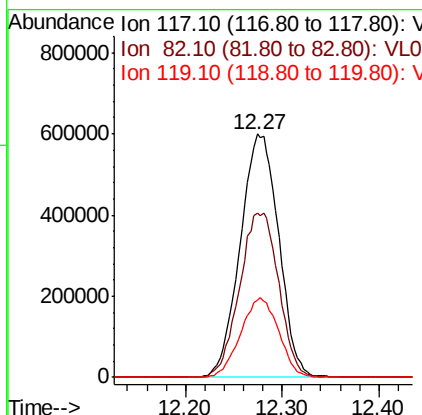
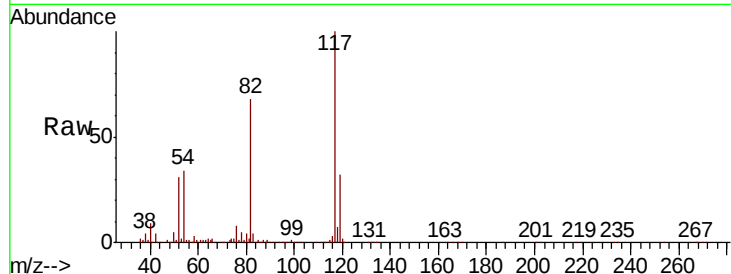
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. 0.03 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

Tgt Ion:117 Resp: 165597
Ion Ratio Lower Upper
117 100
82 69.2 51.1 76.7
119 32.3 43.6 65.4#

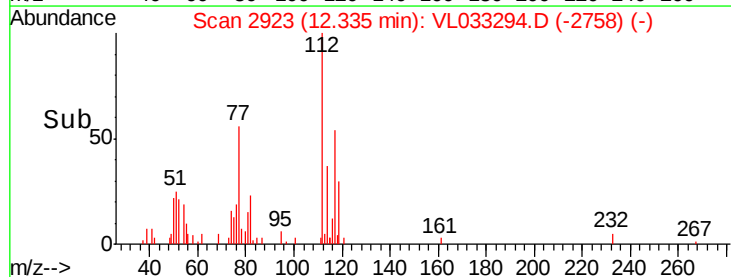
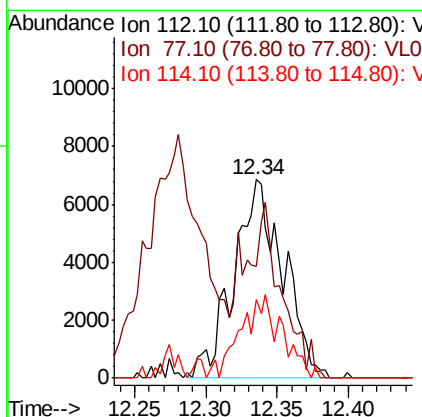
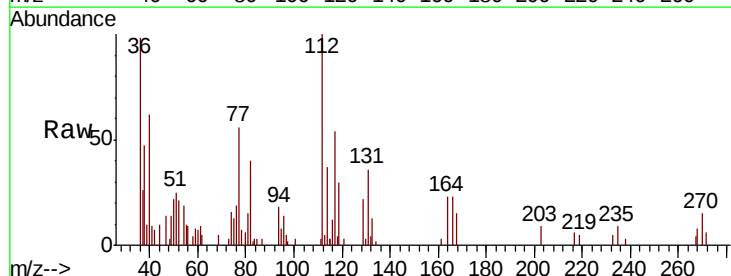
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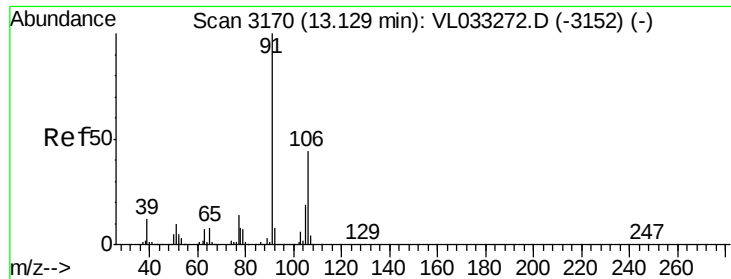
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#57
Chlorobenzene
Concen: 0.132 ppbv m
RT: 12.34 min Scan# 2923
Delta R.T. 0.03 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion:112 Resp: 16428
Ion Ratio Lower Upper
112 100
77 56.0 55.8 83.8
114 36.6 29.5 36.1#





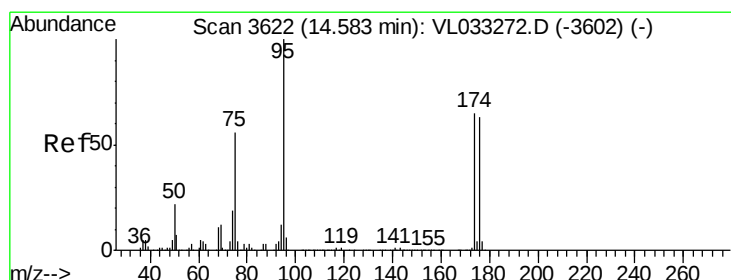
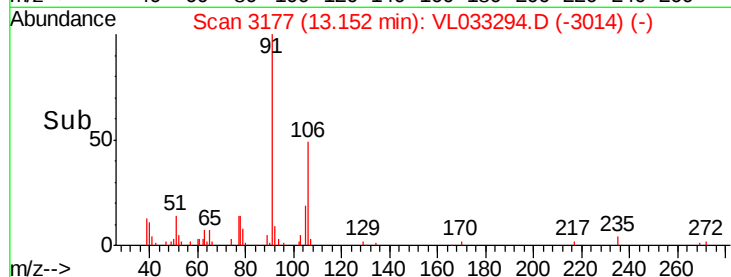
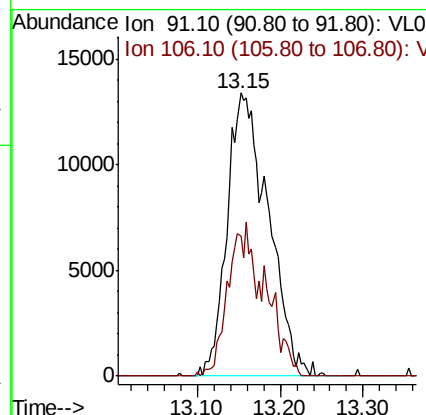
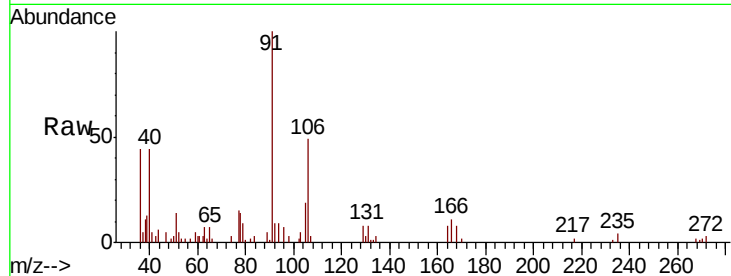
#59
m/p-Xylene
Concen: 0.241 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-2

Tgt Ion: 91 Resp: 45849
Ion Ratio Lower Upper
91 100
106 48.6 35.5 53.3

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.564 ppbv
RT: 14.60 min Scan# 3628
Delta R.T. 0.02 min
Lab File: VL033294.D
Acq: 12 Mar 2019 22:19

Tgt Ion: 95 Resp: 1350565
Ion Ratio Lower Upper
95 100
174 64.0 51.7 77.5
175 4.7 3.7 5.5

