

Data File : VL034275.D
Acq On : 9 Oct 2019 12:06
Operator : SY/AP
Sample : K5243-01DL2 200X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Quant Time: Oct 10 01:23:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	981176	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1826397	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1856288	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1589032	9.85	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

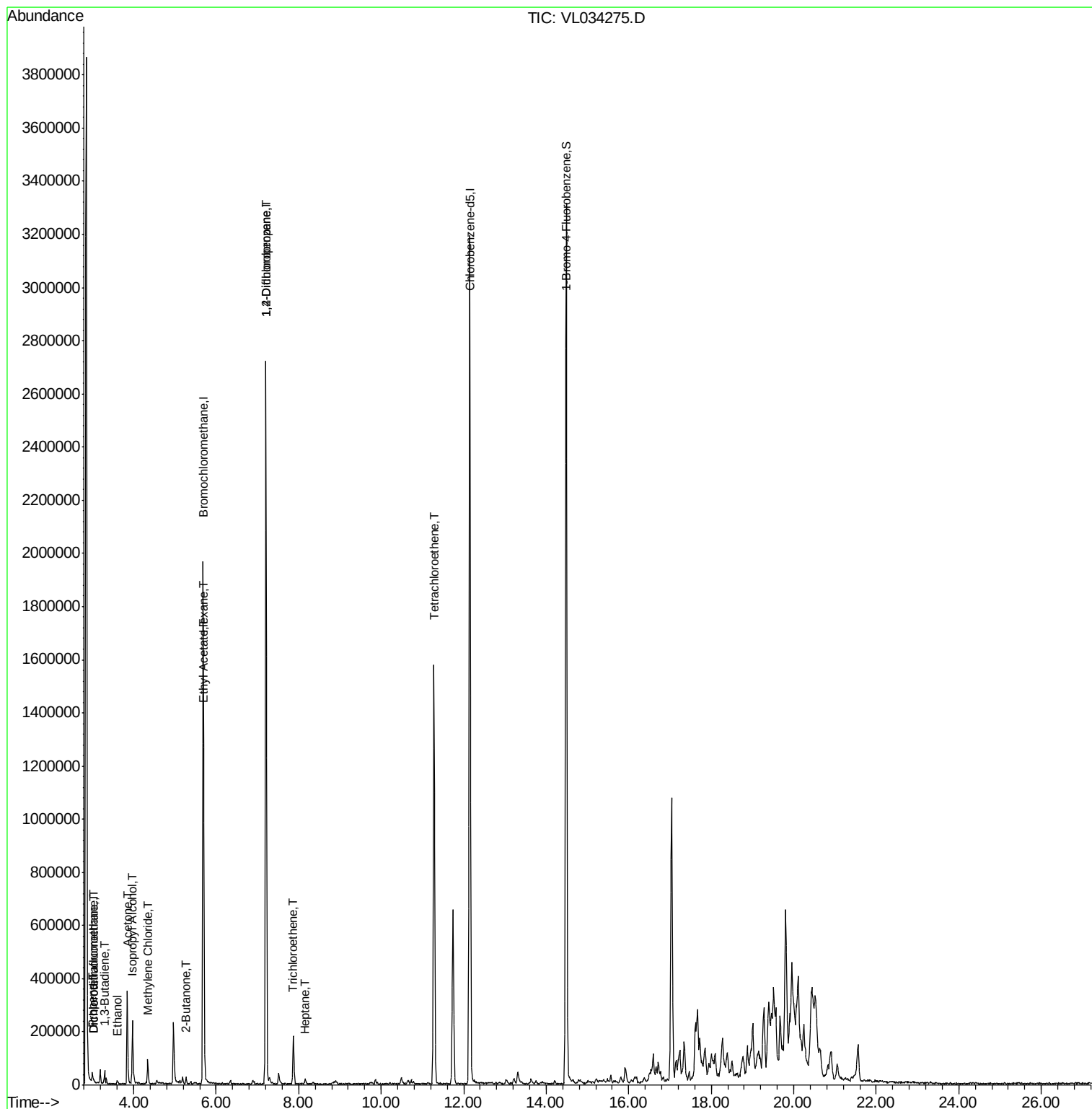
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	6465	0.045	ppbv #	55
8) Dichlorotetrafluoroethane	3.03	85	6465	0.051	ppbv #	21
9) Propene	2.99	41	5520	0.097	ppbv	89
10) Heptane	8.15	43	4661	0.032	ppbv #	38
13) Ethanol	3.60	45	4369	0.318	ppbv #	10
15) Acetone	3.84	43	328397	2.497	ppbv	98
16) 1,3-Butadiene	3.29	39	10679	0.186	ppbv #	20
19) Isopropyl Alcohol	3.97	45	252754	3.126	ppbv #	97
20) Methylene Chloride	4.34	84	25435	0.671	ppbv #	92
25) Ethyl Acetate	5.71	43	55216	0.222	ppbv #	79
26) Hexane	5.70	57	70118	0.678	ppbv #	43
34) 2-Butanone	5.27	43	22396	0.120	ppbv #	91
38) Trichloroethene	7.87	130	30884	0.429	ppbv	97
39) 1,2-Dichloropropane	7.21	63	556084	6.136	ppbv #	20
52) Tetrachloroethene	11.28	164	374203	5.615	ppbv	96

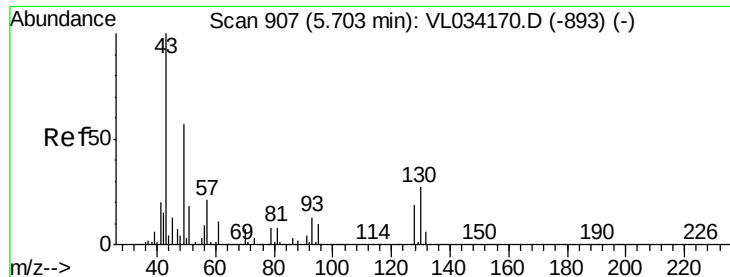
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

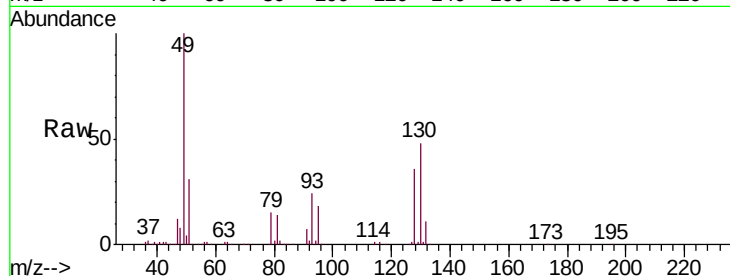
Tgt Ion: 49 Resp: 981176

Ion Ratio Lower Upper

49 100

128 38.5 17.6 52.9

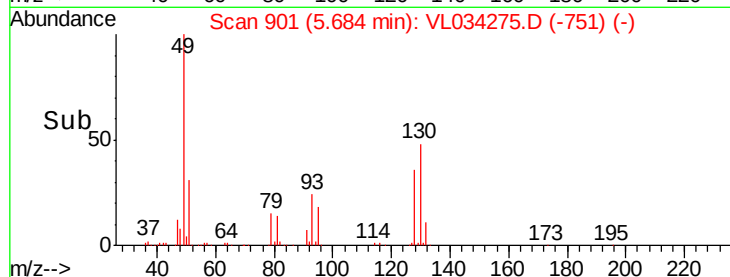
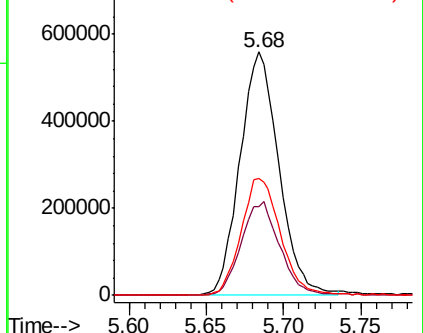
130 49.0 22.3 66.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034275.D

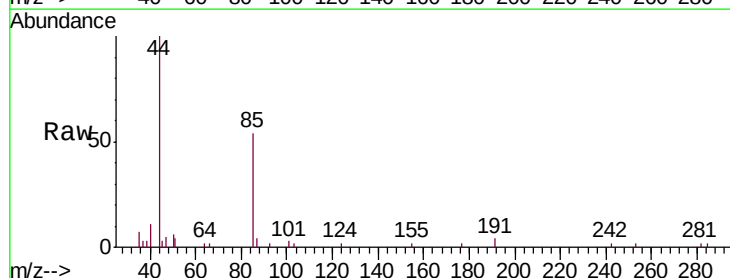
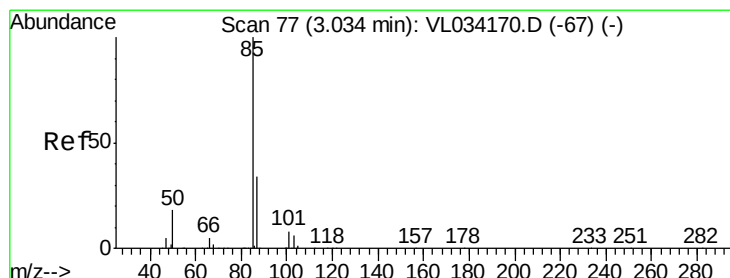
Acq: 9 Oct 2019 12:06

Tgt Ion: 85 Resp: 6465

Ion Ratio Lower Upper

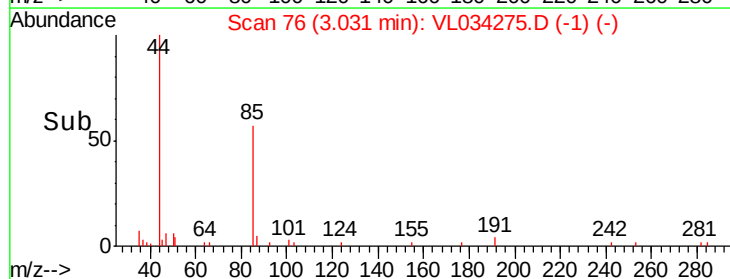
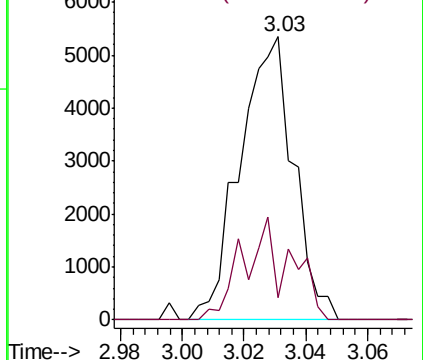
85 100

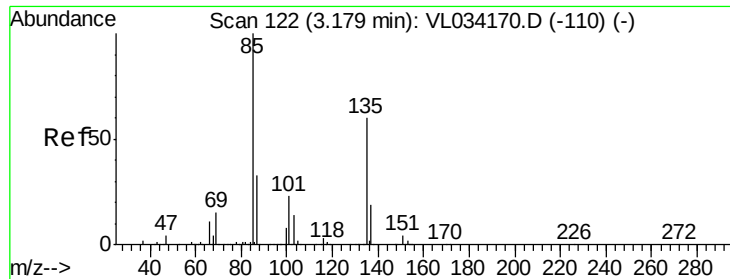
87 8.1 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.051 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.15 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

Instrument :

MSVOA_L

ClientSampleId :

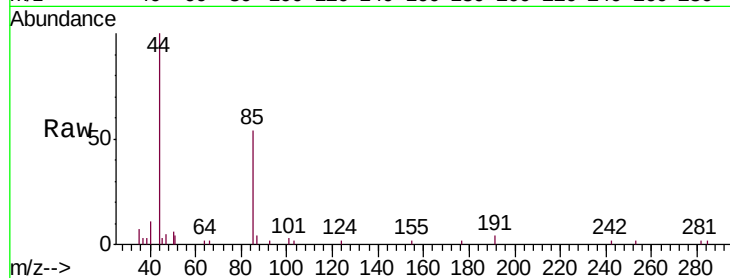
SV1DL2

Tgt Ion: 85 Resp: 6465

Ion Ratio Lower Upper

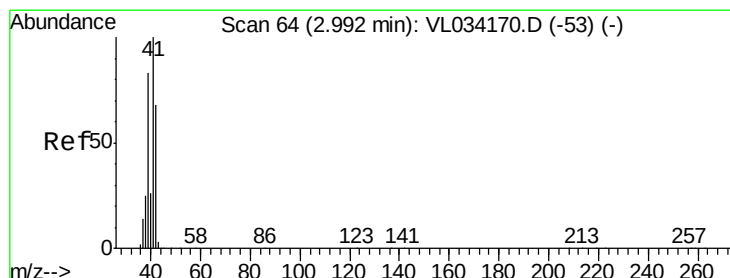
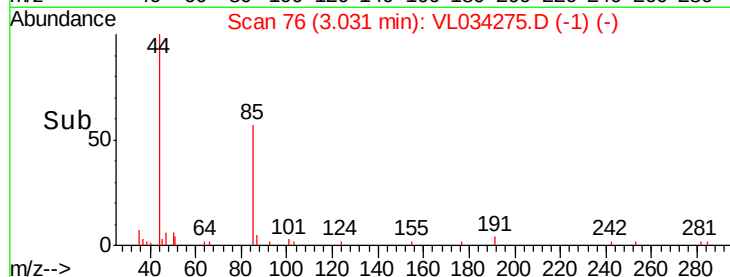
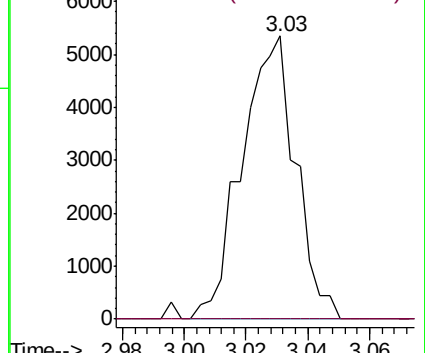
85 100

135 0.0 47.3 70.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.097 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034275.D

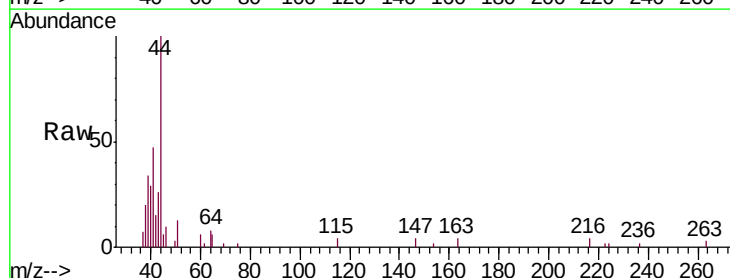
Acq: 9 Oct 2019 12:06

Tgt Ion: 41 Resp: 5520

Ion Ratio Lower Upper

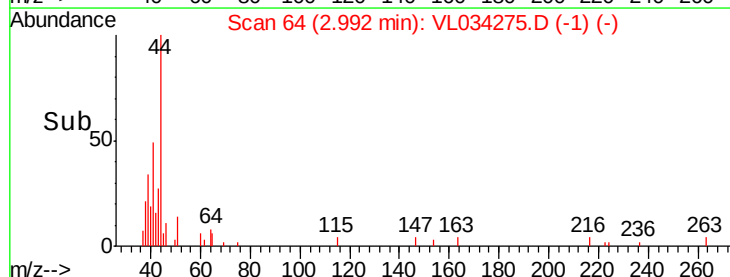
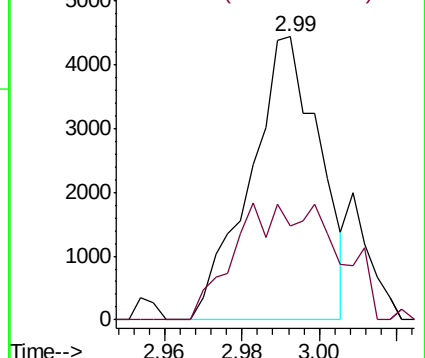
41 100

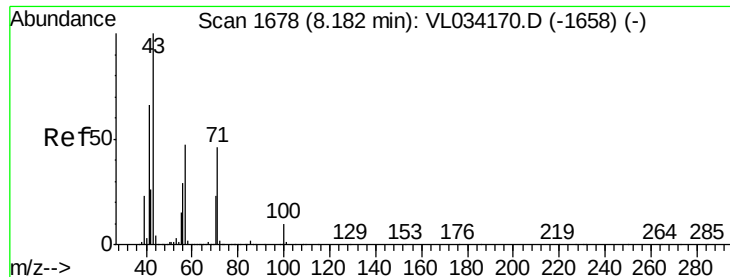
42 60.6 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

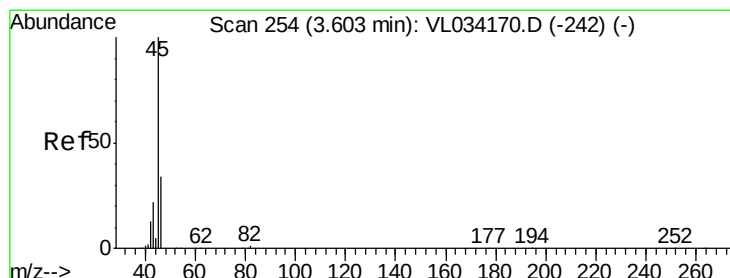
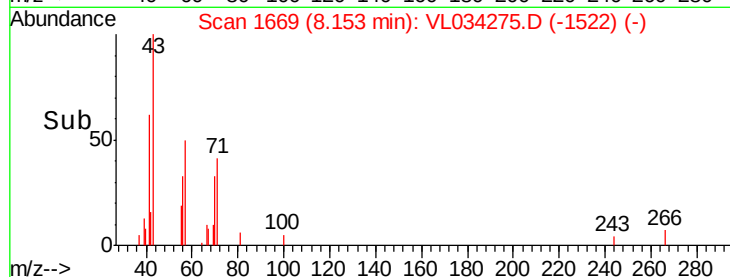
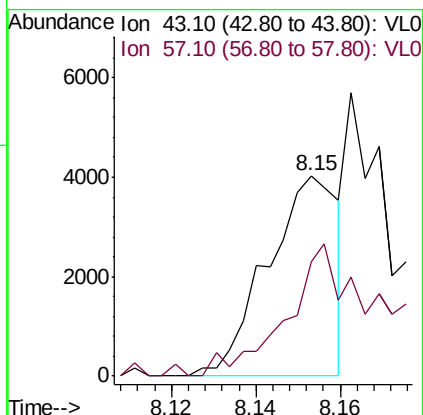
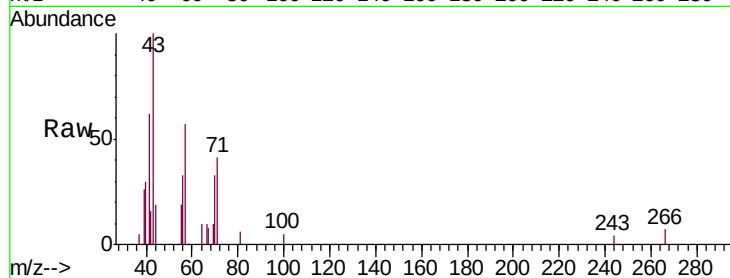




#10
 Heptane
 Concen: 0.032 ppbv
 RT: 8.15 min Scan# 1669
 Delta R.T. -0.03 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

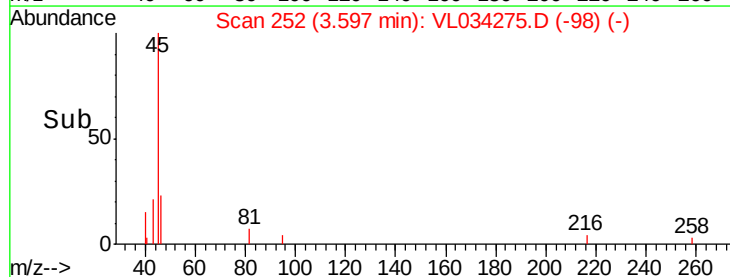
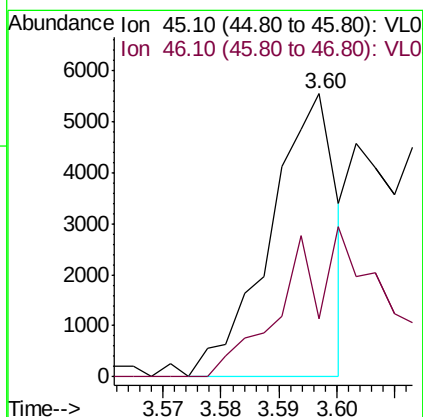
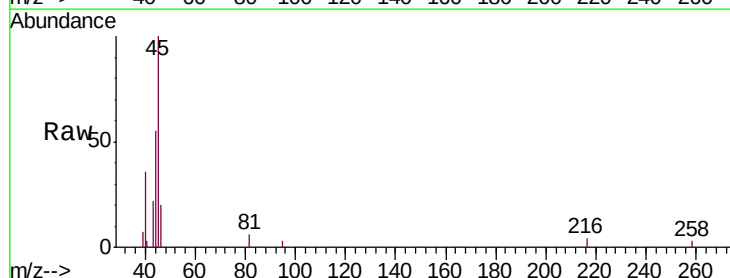
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

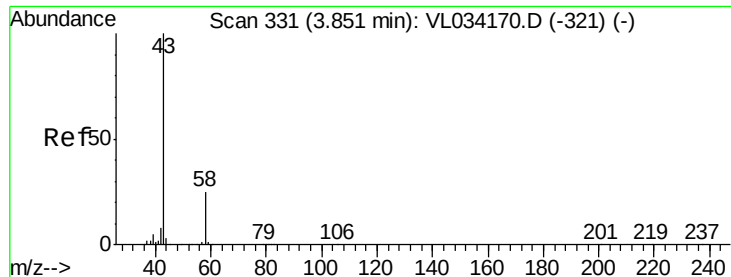
Tgt Ion: 43 Resp: 4661
 Ion Ratio Lower Upper
 43 100
 57 88.4 37.5 56.3#



#13
 Ethanol
 Concen: 0.318 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

Tgt Ion: 45 Resp: 4369
 Ion Ratio Lower Upper
 45 100
 46 93.4 15.5 61.9#

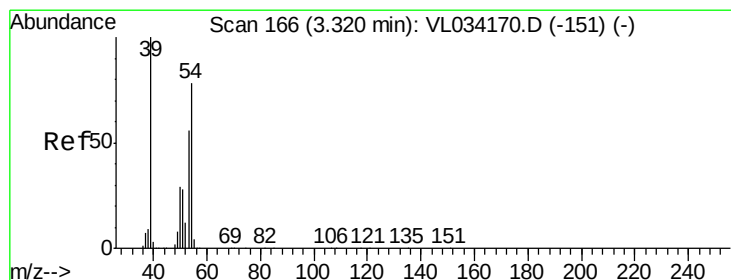
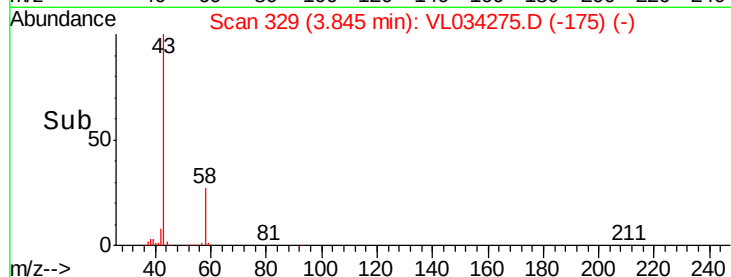
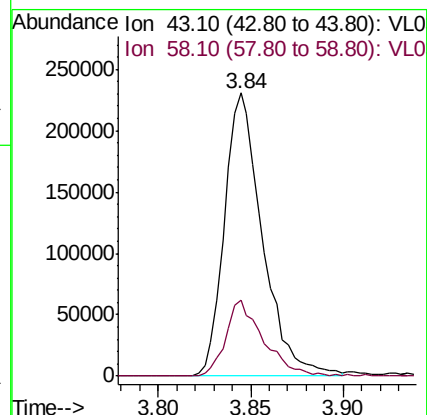
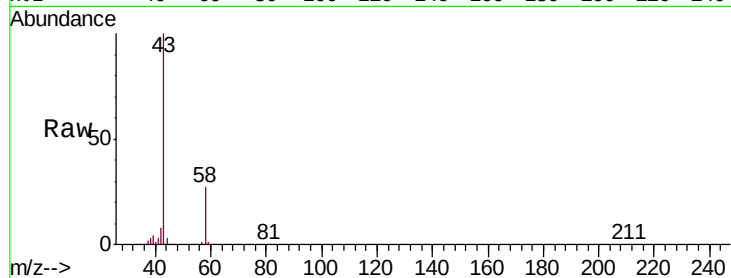




#15
Acetone
Concen: 2.497 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034275.D
Acq: 9 Oct 2019 12:06

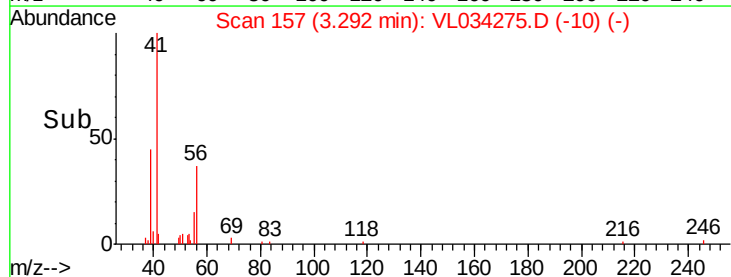
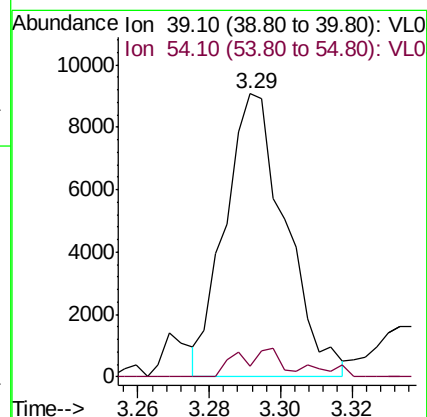
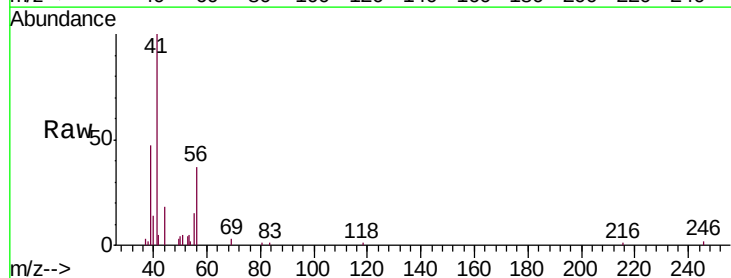
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

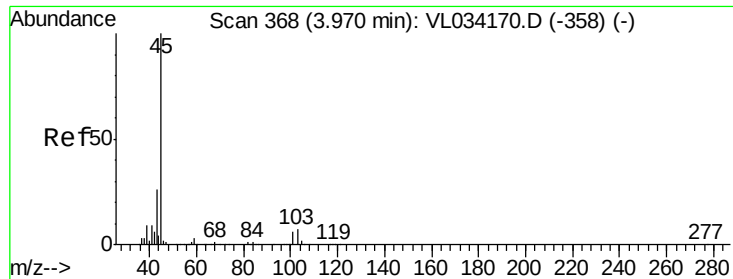
Tgt Ion: 43 Resp: 328397
Ion Ratio Lower Upper
43 100
58 26.8 20.5 30.7



#16
1,3-Butadiene
Concen: 0.186 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.03 min
Lab File: VL034275.D
Acq: 9 Oct 2019 12:06

Tgt Ion: 39 Resp: 10679
Ion Ratio Lower Upper
39 100
54 9.1 63.4 95.0#





#19

Isopropyl Alcohol

Concen: 3.126 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

Instrument :

MSVOA_L

ClientSampleId :

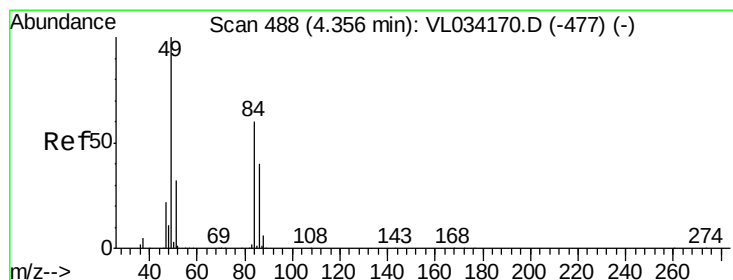
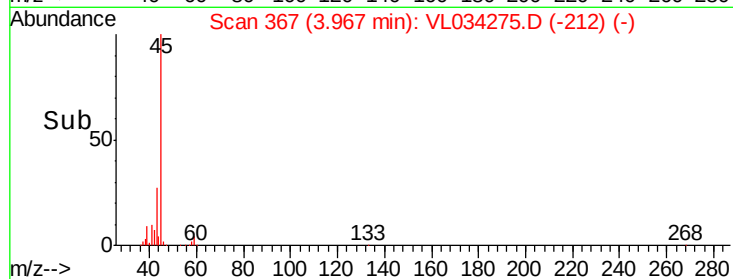
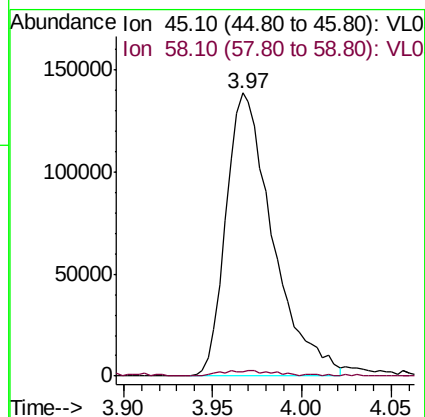
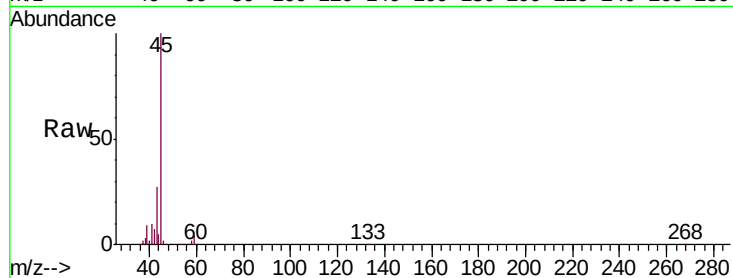
SV1DL2

Tgt Ion: 45 Resp: 252754

Ion Ratio Lower Upper

45 100

58 2.7 1.4 2.0#



#20

Methylene Chloride

Concen: 0.671 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

Tgt Ion: 84 Resp: 25435

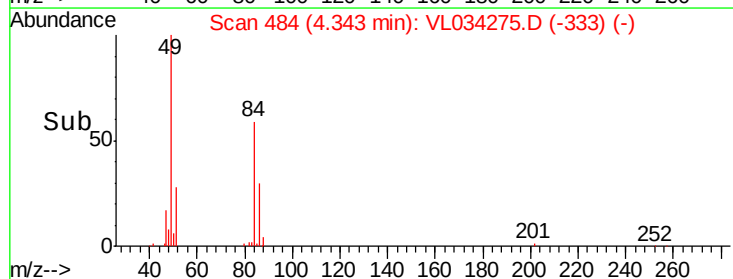
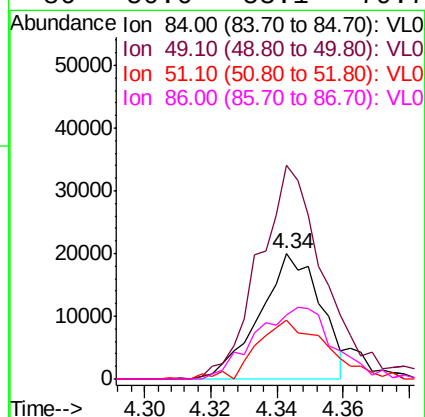
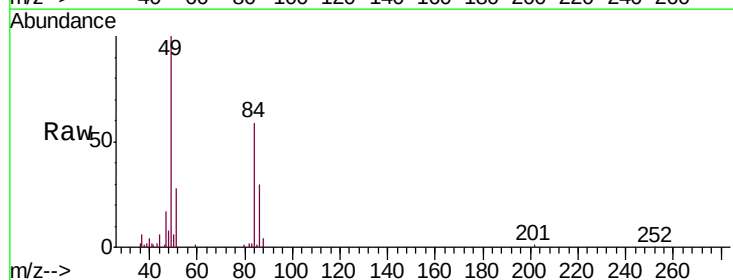
Ion Ratio Lower Upper

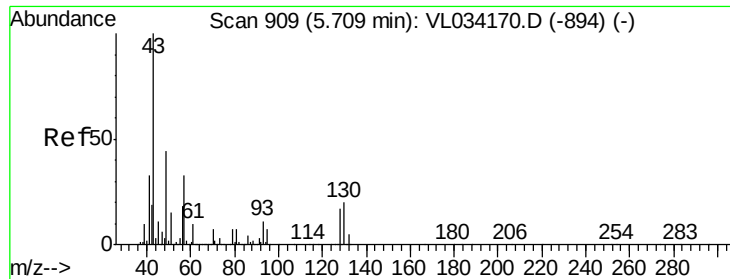
84 100

49 170.3 133.8 200.8

51 47.2 43.6 65.4

86 50.6 53.1 79.7#

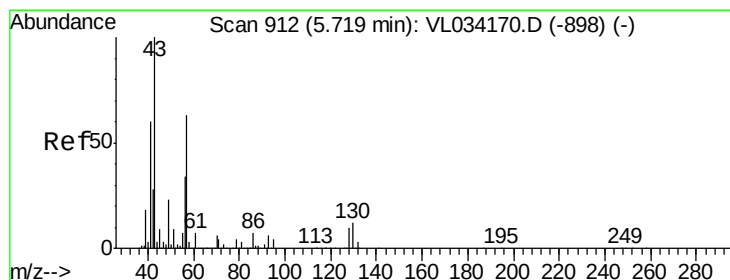
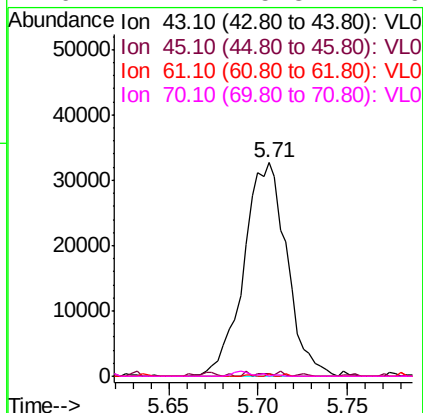
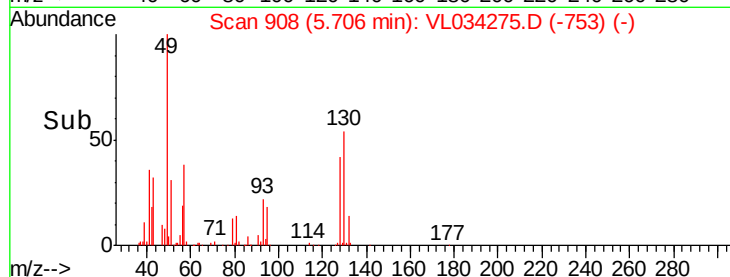
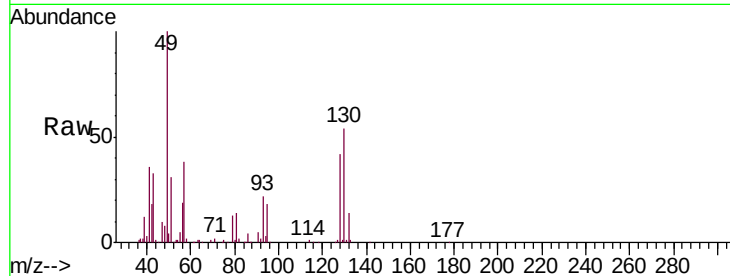




#25
Ethyl Acetate
Concen: 0.222 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034275.D
Acq: 9 Oct 2019 12:06

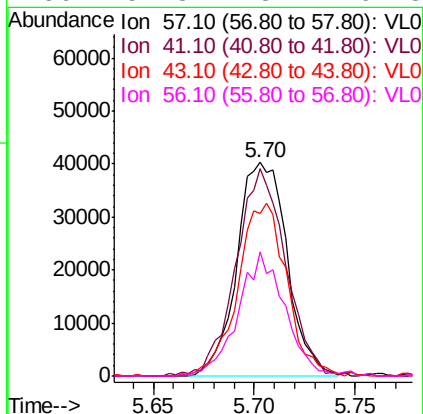
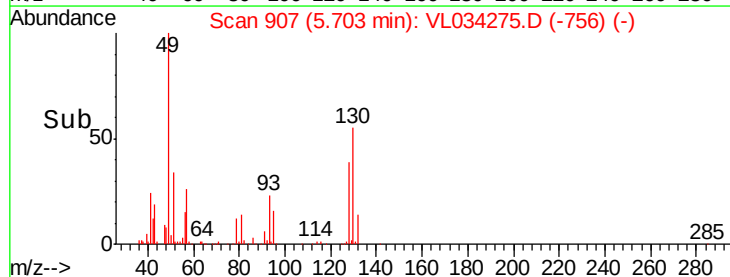
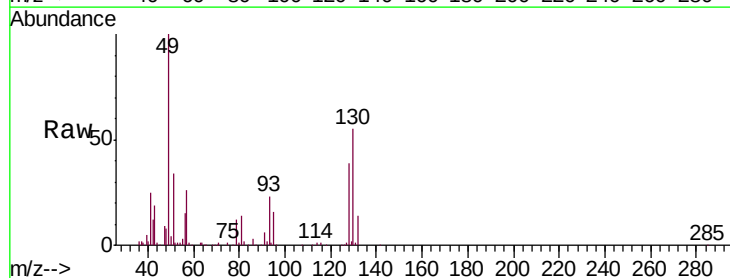
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

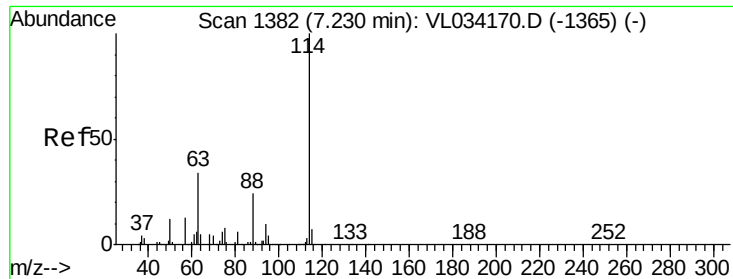
Tgt Ion:	43	Resp:	55216
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.4	12.6#
61	0.3	7.2	10.8#
70	1.1	5.3	7.9#



#26
Hexane
Concen: 0.678 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.02 min
Lab File: VL034275.D
Acq: 9 Oct 2019 12:06

Tgt Ion:	57	Resp:	70118
Ion	Ratio	Lower	Upper
57	100		
41	96.9	78.5	117.7
43	79.1	189.5	284.3#
56	54.3	43.2	64.8

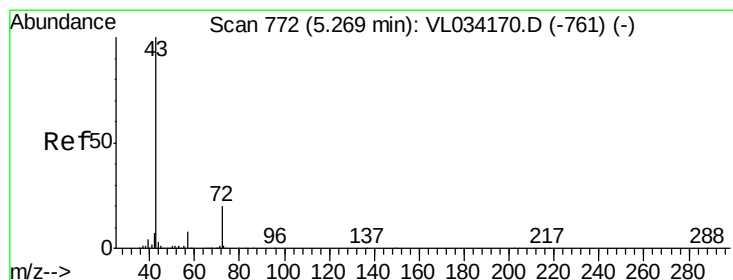
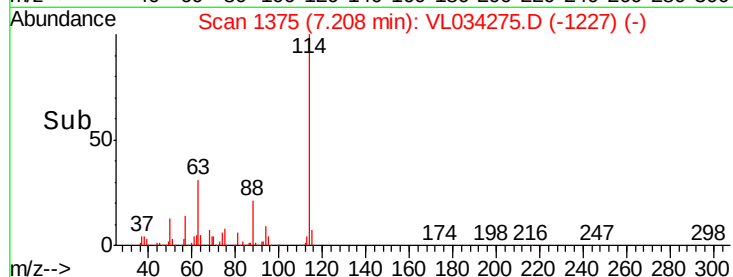
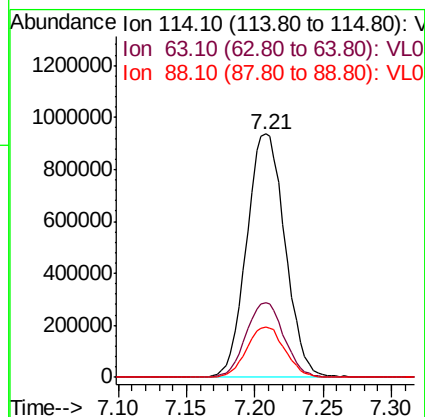
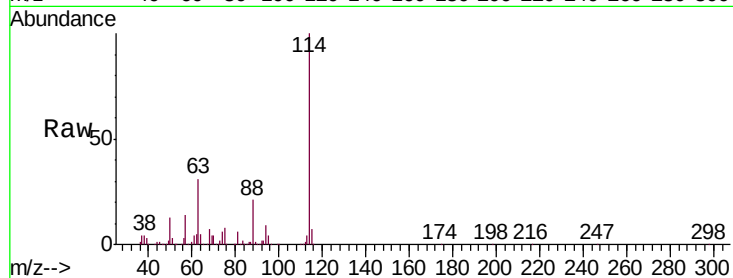




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

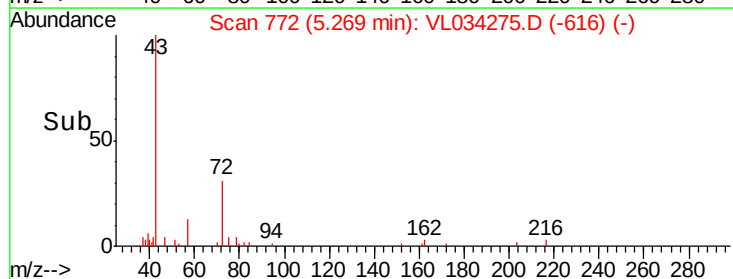
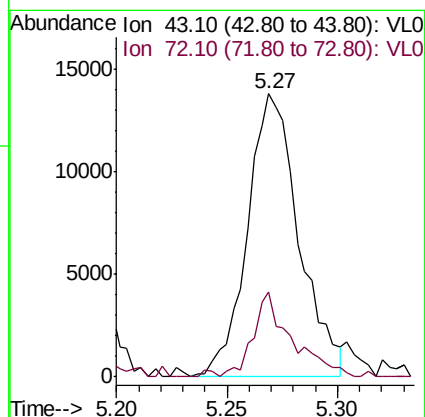
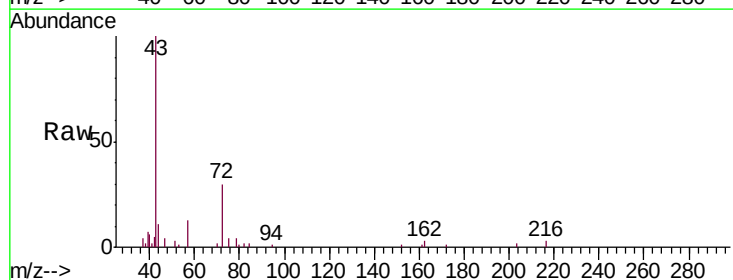
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

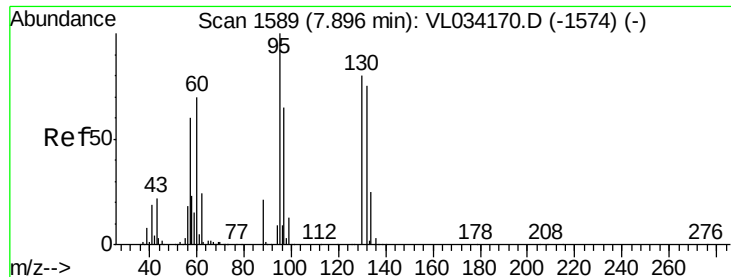
Tgt Ion:114 Resp: 1826397
 Ion Ratio Lower Upper
 114 100
 63 30.6 27.8 41.6
 88 20.6 17.1 25.7



#34
 2-Butanone
 Concen: 0.120 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

Tgt Ion: 43 Resp: 22396
 Ion Ratio Lower Upper
 43 100
 72 22.9 15.0 22.6#

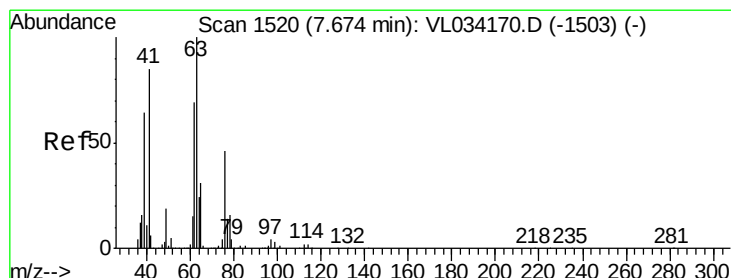
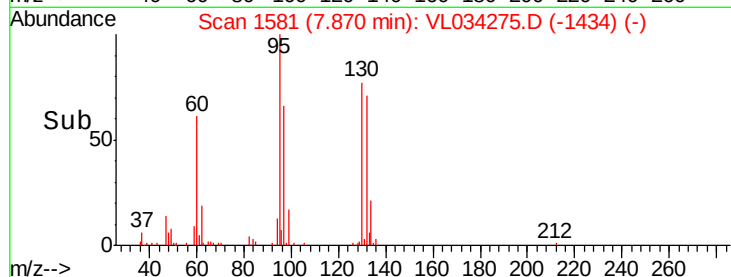
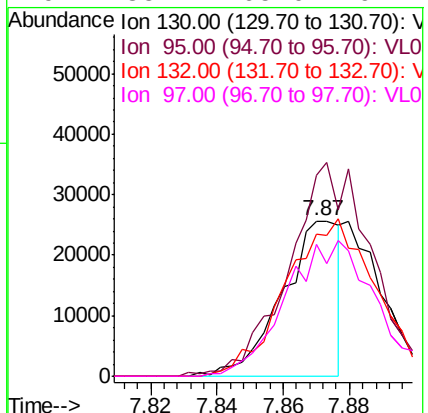
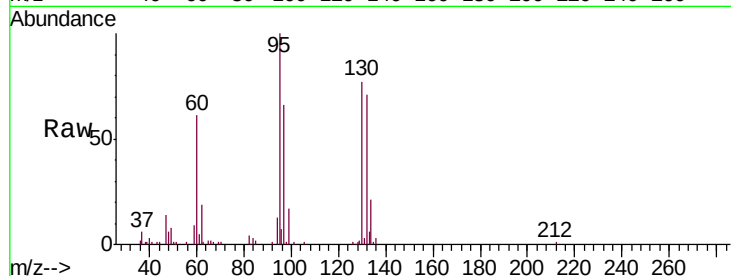




#38
 Trichloroethene
 Concen: 0.429 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.03 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

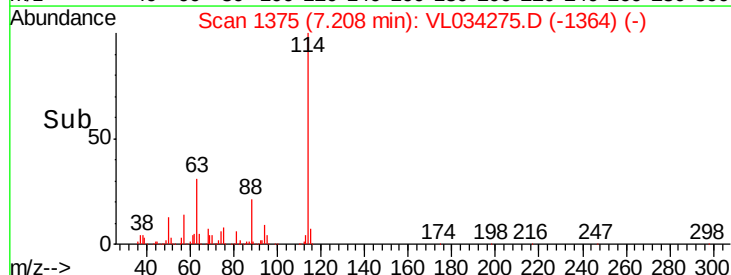
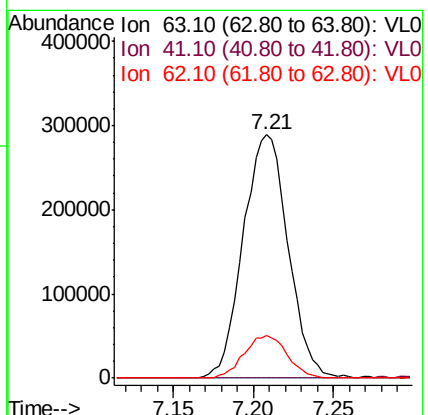
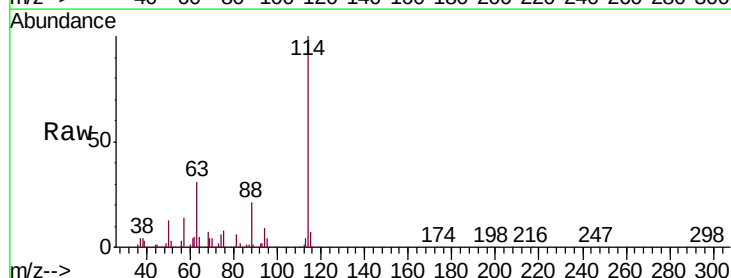
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

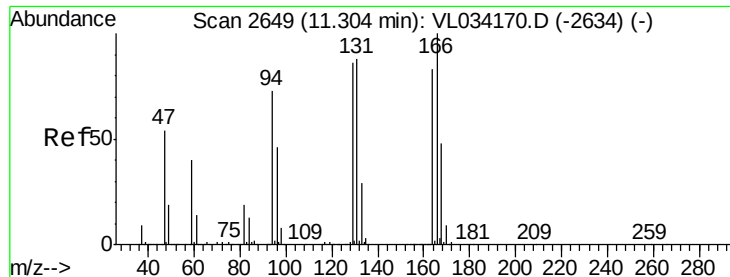
Tgt Ion:130 Resp: 30884
 Ion Ratio Lower Upper
 130 100
 95 127.6 99.8 149.6
 132 91.9 75.2 112.8
 97 85.2 65.0 97.4



#39
 1,2-Dichloropropane
 Concen: 6.136 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.47 min
 Lab File: VL034275.D
 Acq: 9 Oct 2019 12:06

Tgt Ion: 63 Resp: 556084
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 17.7 55.4 83.2#





#52

Tetrachloroethene

Concen: 5.615 ppbv

RT: 11.28 min Scan# 2641

Delta R.T. -0.03 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

Tgt Ion:164 Resp: 374203

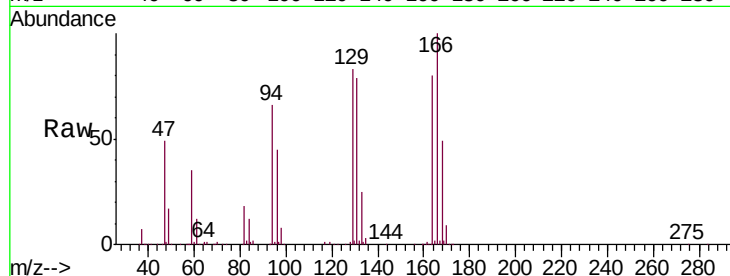
Ion Ratio Lower Upper

164 100

166 124.5 96.7 145.1

129 102.4 82.8 124.2

131 98.0 85.0 127.6

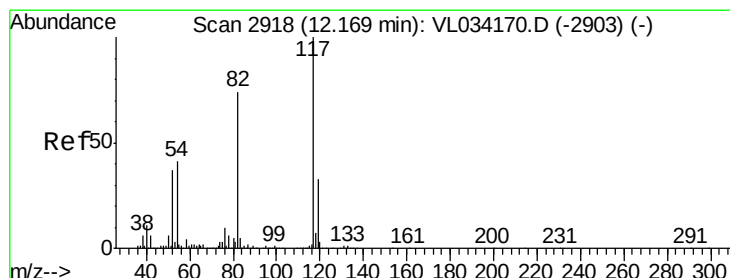
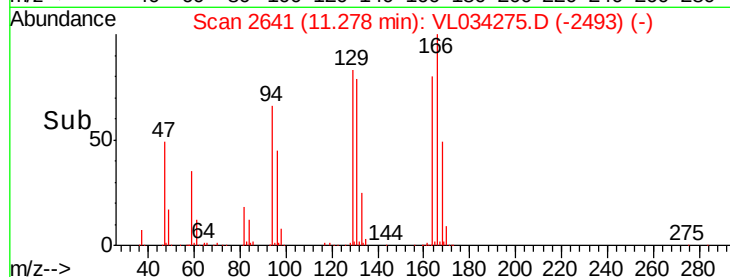
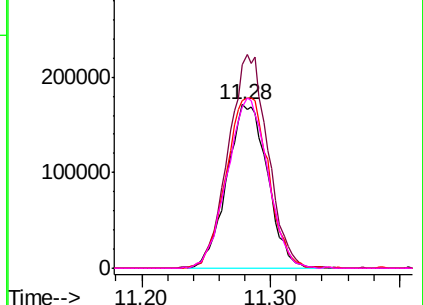


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

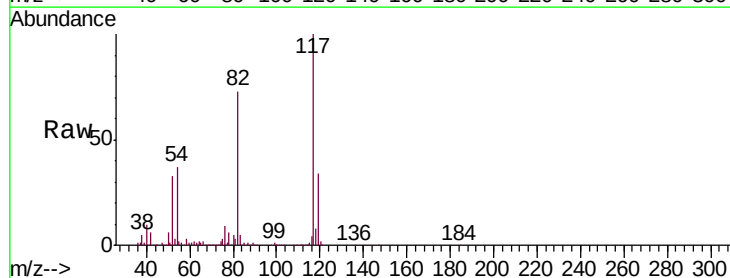
Tgt Ion:117 Resp: 1856288

Ion Ratio Lower Upper

117 100

82 74.2 58.2 87.4

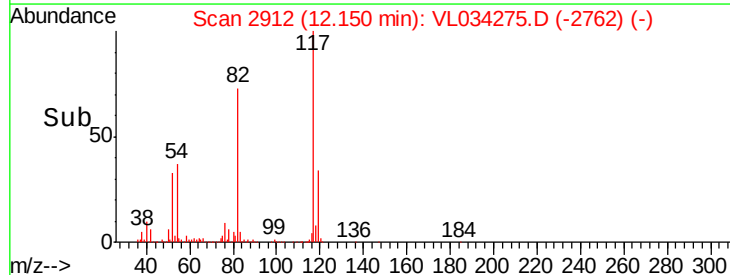
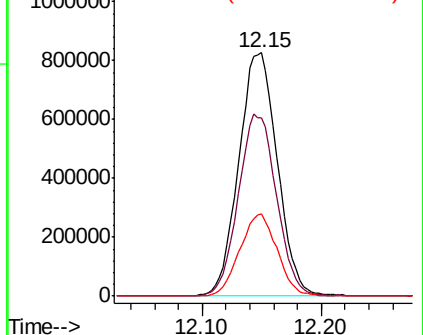
119 32.8 23.7 35.5

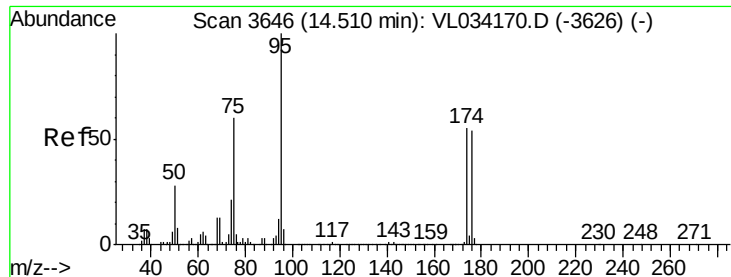


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.852 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.02 min

Lab File: VL034275.D

Acq: 9 Oct 2019 12:06

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

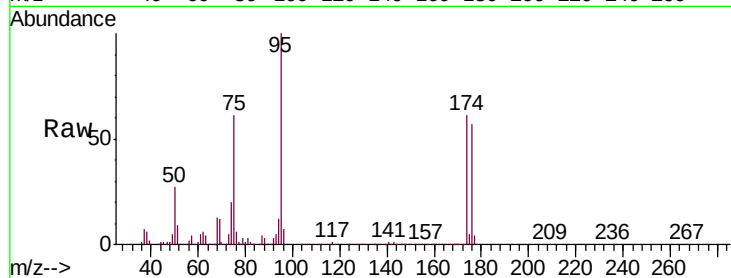
Tgt Ion: 95 Resp: 1589032

Ion Ratio Lower Upper

95 100

174 60.1 45.1 67.7

175 4.2 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

