

Data File : VL033718.D
Acq On : 17 May 2019 16:02
Operator : SY/AP
Sample : K2904-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
S-02DL

Quant Time: May 17 23:23:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
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	5.76	49	1112603	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2634851	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2612080	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2089258	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	8861	0.038	ppbv	97
3) Chlorodifluoromethane	2.99	51	223926	1.757	ppbv #	75
4) Chloromethane	3.17	50	2924	0.040	ppbv #	71
9) Propene	3.24	41	46887	0.865	ppbv	95
11) Trichlorofluoromethane	4.00	101	45984	0.205	ppbv	97
13) Ethanol	3.65	45	298407	17.032	ppbv	98
15) Acetone	3.91	43	160825	1.042	ppbv	97
16) 1,3-Butadiene	3.34	39	9387	0.153	ppbv #	11
19) Isopropyl Alcohol	4.03	45	85309	0.857	ppbv #	96
20) Methylene Chloride	4.41	84	76543	1.288	ppbv	95
23) Vinyl Acetate	5.14	43	3383	0.017	ppbv #	73
25) Ethyl Acetate	5.78	43	31026	0.114	ppbv #	84
26) Hexane	5.78	57	39189	0.336	ppbv #	42
27) Carbon Disulfide	4.62	76	20258	0.127	ppbv #	57
29) Chloroform	5.84	83	149467	0.696	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	4040	0.035	ppbv	94
34) 2-Butanone	5.33	43	1782	0.011	ppbv #	54
38) Trichloroethene	7.96	130	38606	0.434	ppbv	86
39) 1,2-Dichloropropane	7.29	63	669064	7.487	ppbv #	22
42) Bromodichloromethane	7.91	83	4315	0.020	ppbv	93

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

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MSVOA_L
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S-02DL

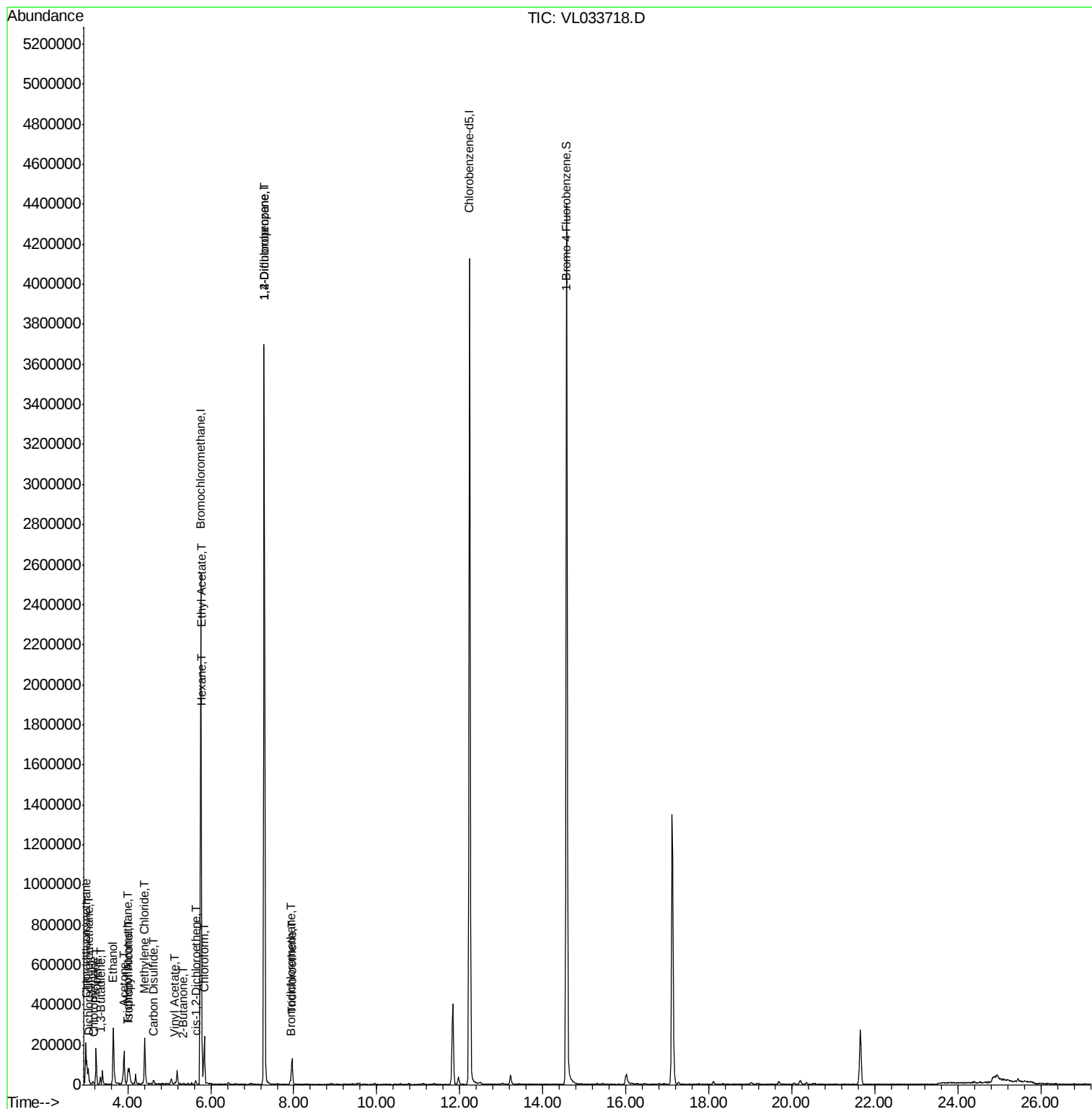
Quant Time: May 17 23:23:27 2019

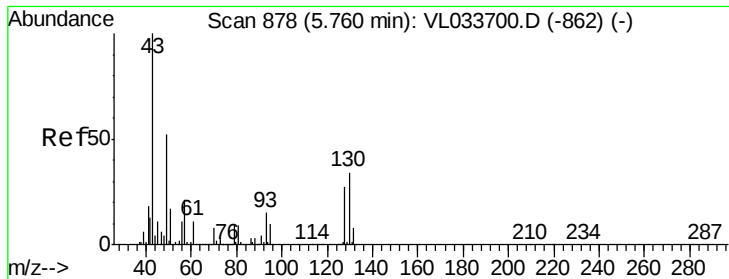
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleId :

S-02DL

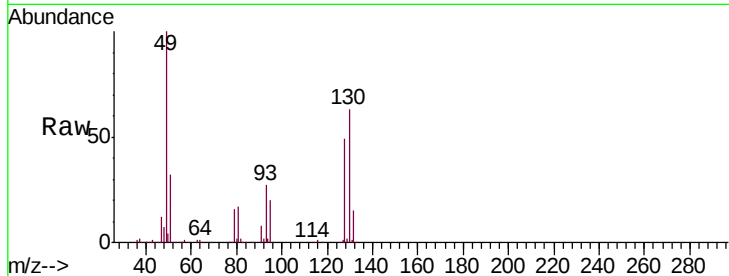
Tgt Ion: 49 Resp: 1112603

Ion Ratio Lower Upper

49 100

128 51.1 25.2 75.6

130 66.0 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

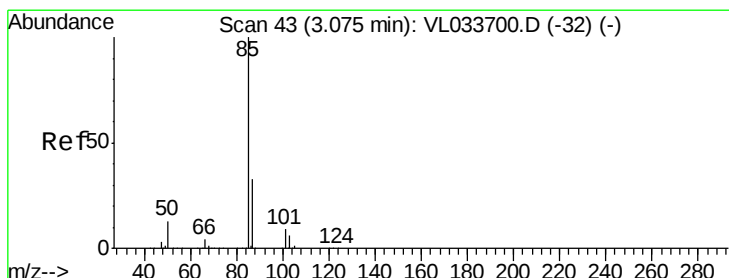
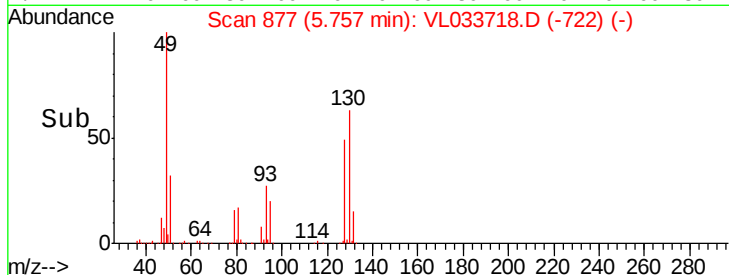
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.038 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033718.D

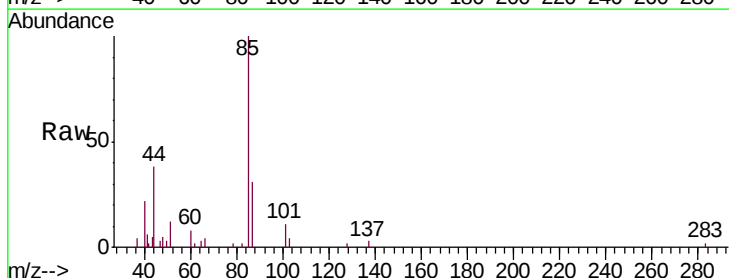
Acq: 17 May 2019 16:02

Tgt Ion: 85 Resp: 8861

Ion Ratio Lower Upper

85 100

87 31.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

8000

6000

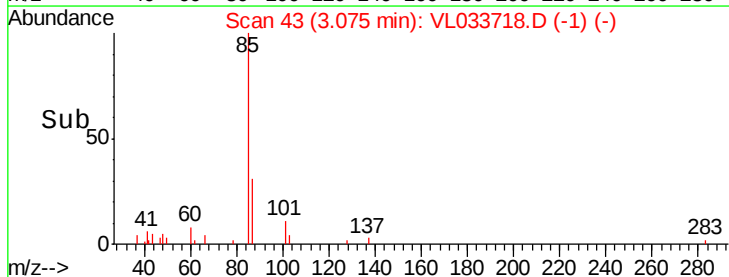
4000

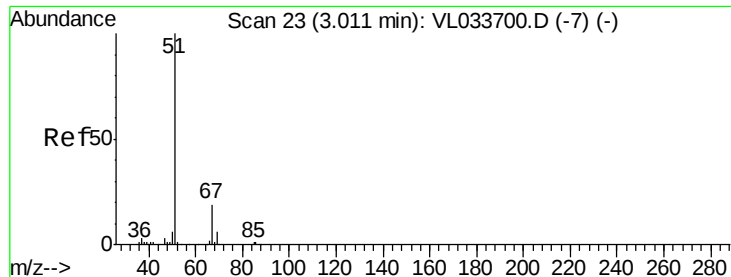
2000

0

3.04 3.06 3.08 3.10

Time-->

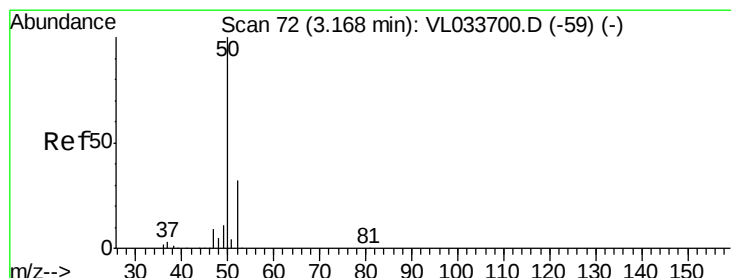
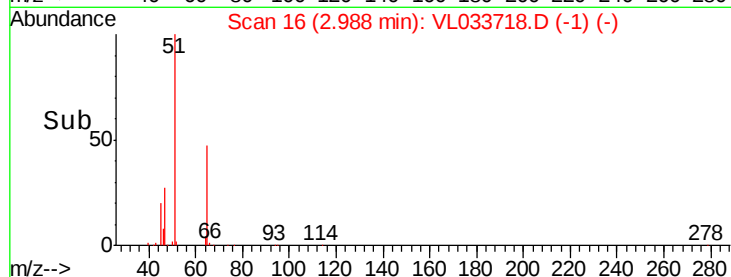
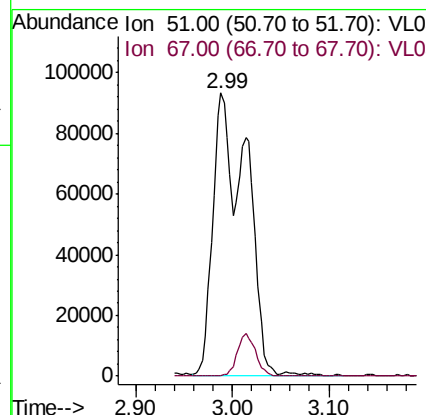
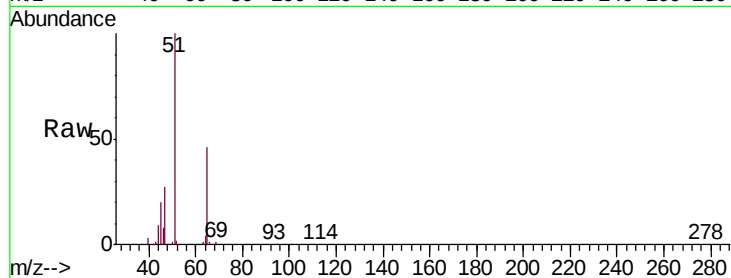




#3
 Chlorodifluoromethane
 Concen: 1.757 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.02 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

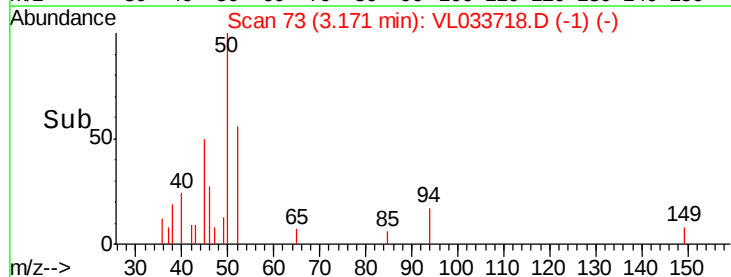
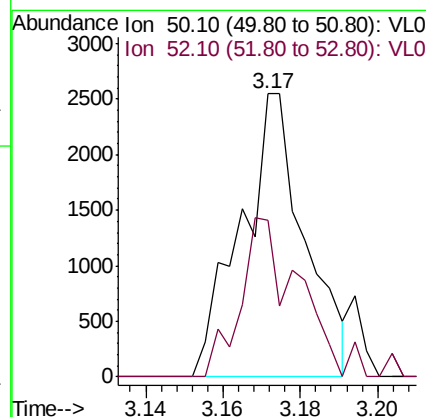
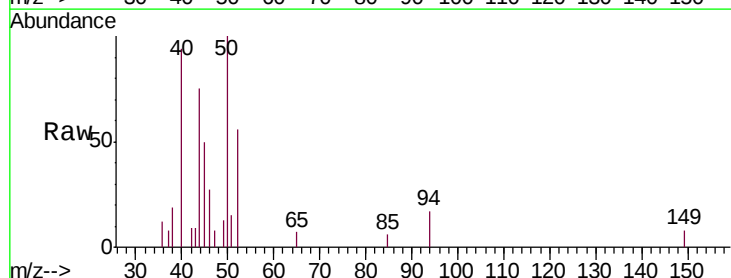
Instrument :
 MSVOA_L
 ClientSampleId :
 S-02DL

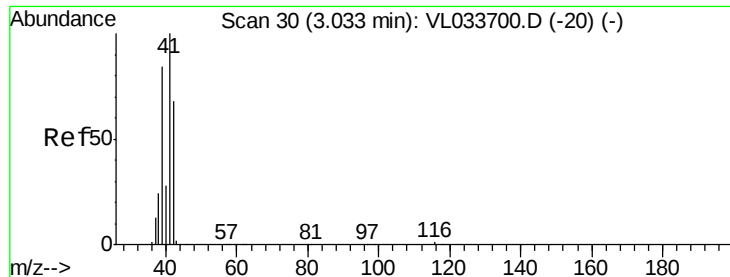
Tgt Ion: 51 Resp: 223926
 Ion Ratio Lower Upper
 51 100
 67 8.2 15.6 23.4#



#4
 Chloromethane
 Concen: 0.040 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

Tgt Ion: 50 Resp: 2924
 Ion Ratio Lower Upper
 50 100
 52 48.1 25.7 38.5#





#9

Propene

Concen: 0.865 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.21 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleId :

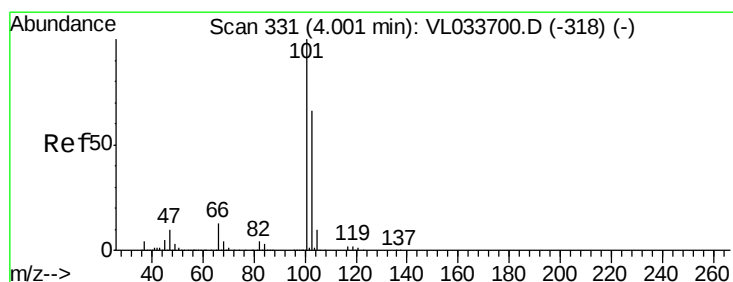
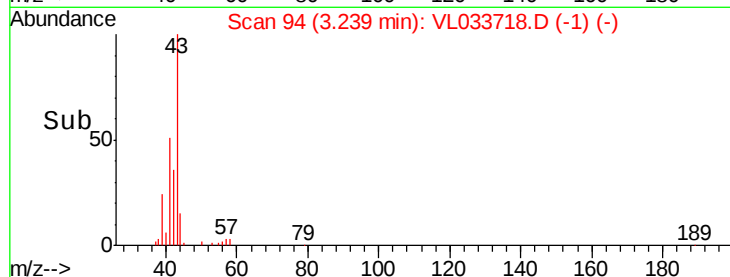
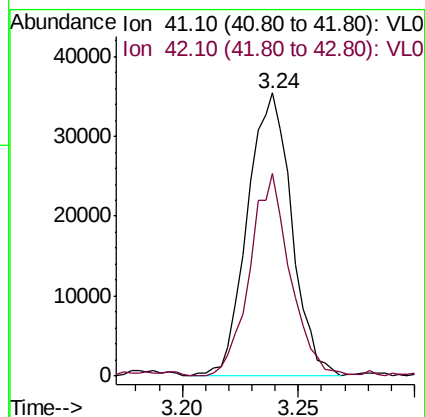
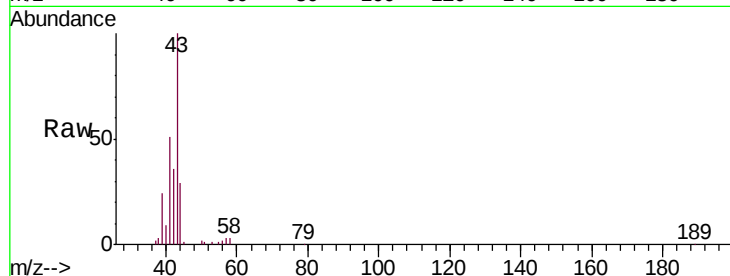
S-02DL

Tgt Ion: 41 Resp: 46887

Ion Ratio Lower Upper

41 100

42 65.8 56.1 84.1



#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033718.D

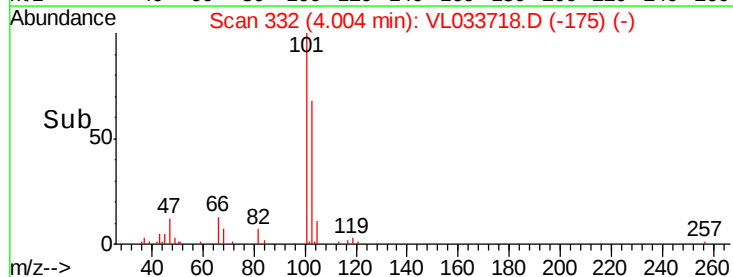
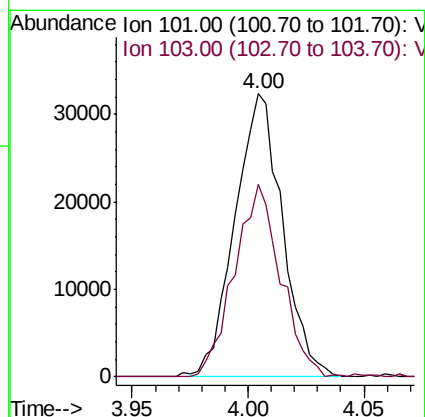
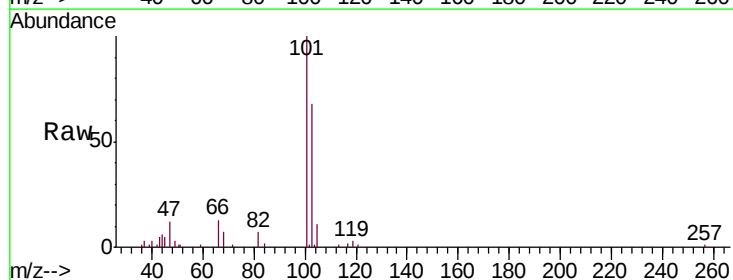
Acq: 17 May 2019 16:02

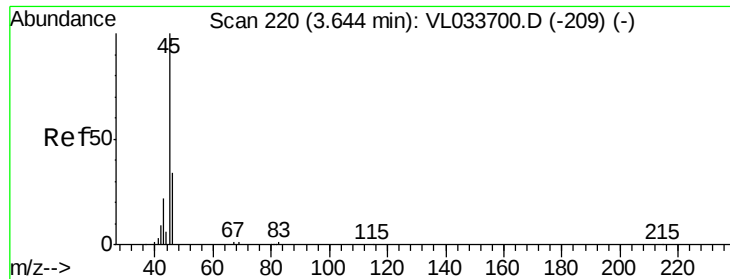
Tgt Ion: 101 Resp: 45984

Ion Ratio Lower Upper

101 100

103 68.1 52.6 78.8





#13

Ethanol

Concen: 17.032 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleId :

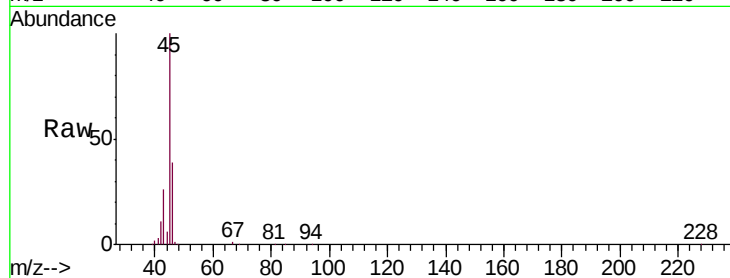
S-02DL

Tgt Ion: 45 Resp: 298407

Ion Ratio Lower Upper

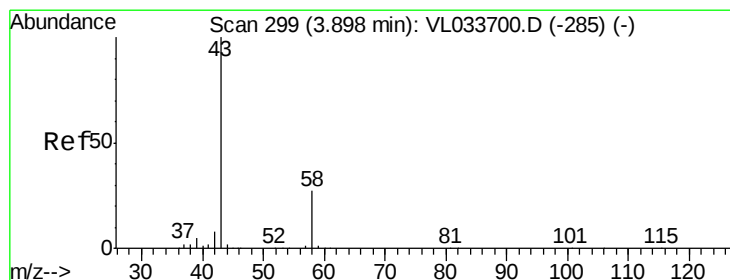
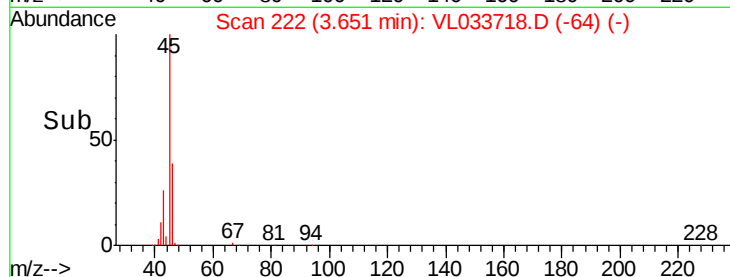
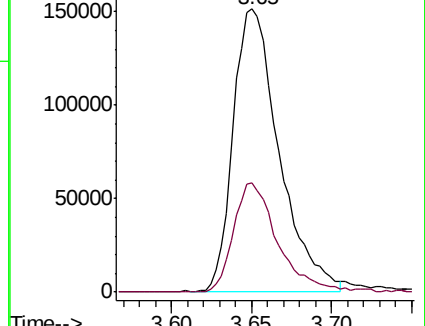
45 100

46 38.0 14.8 59.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 1.042 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033718.D

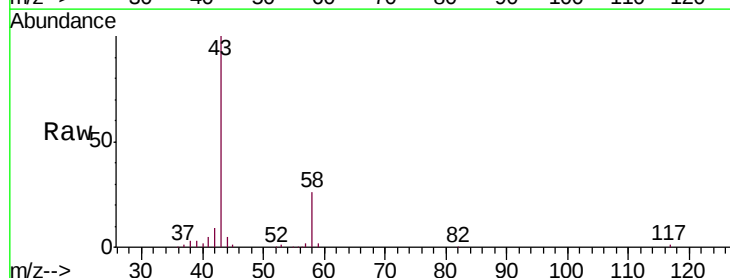
Acq: 17 May 2019 16:02

Tgt Ion: 43 Resp: 160825

Ion Ratio Lower Upper

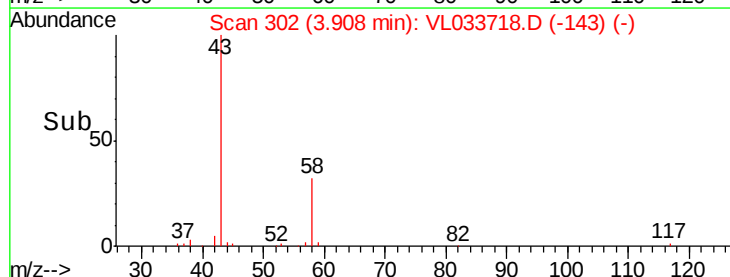
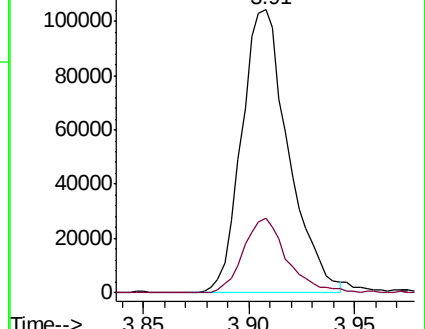
43 100

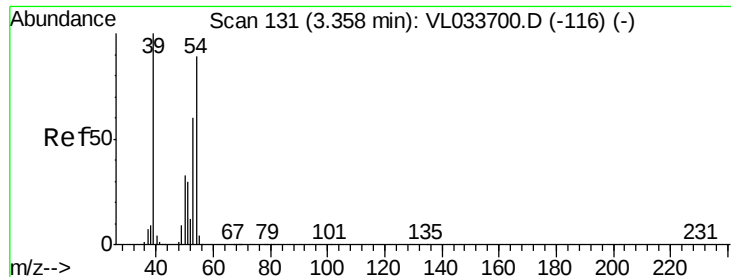
58 24.9 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

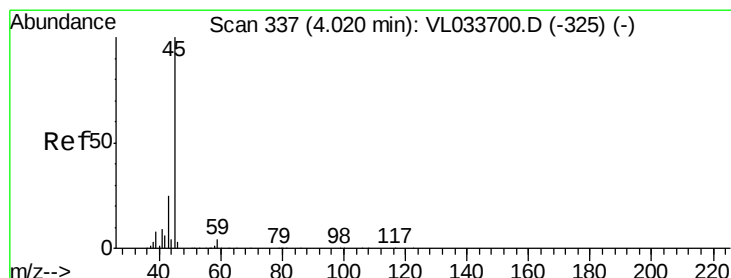
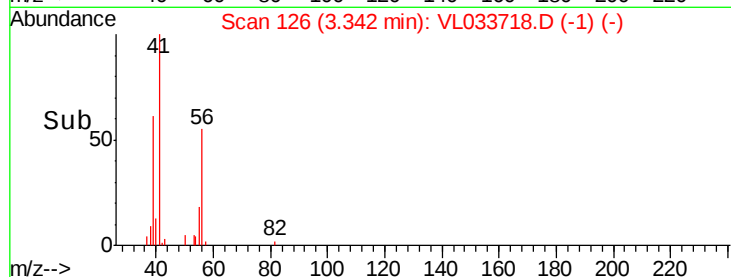
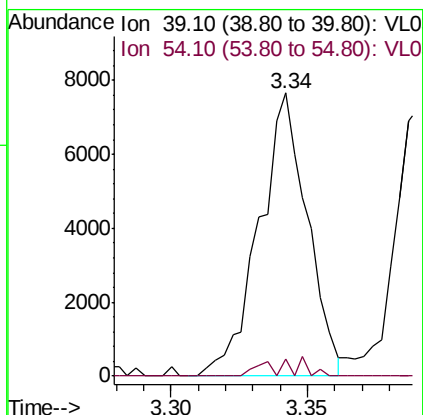
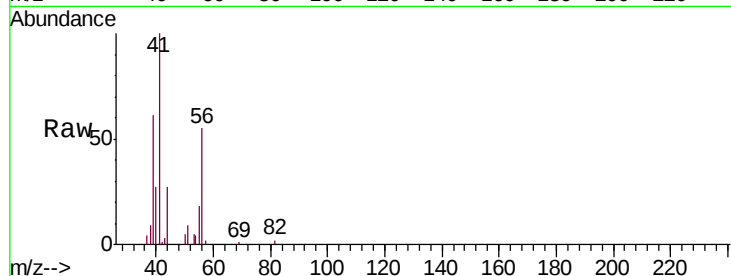




#16
 1,3-Butadiene
 Concen: 0.153 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

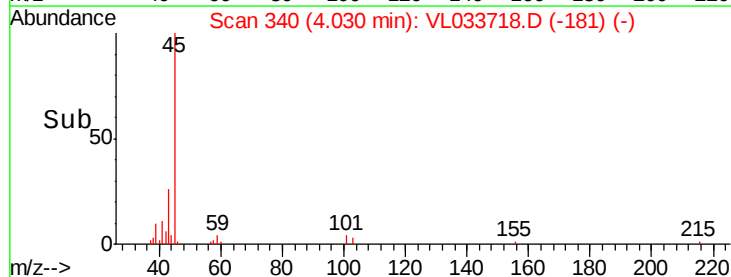
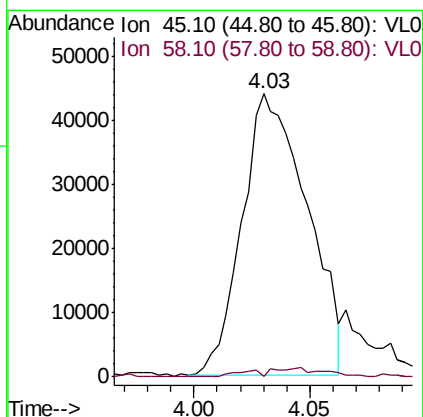
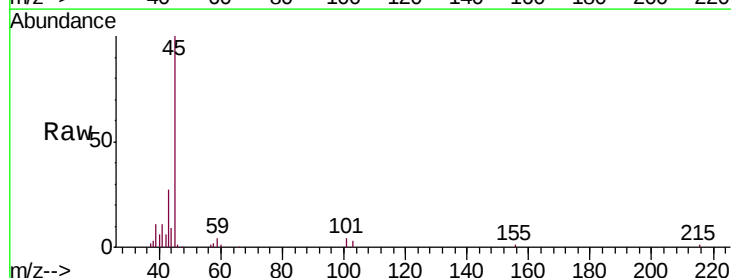
Instrument :
 MSVOA_L
 ClientSampleId :
 S-02DL

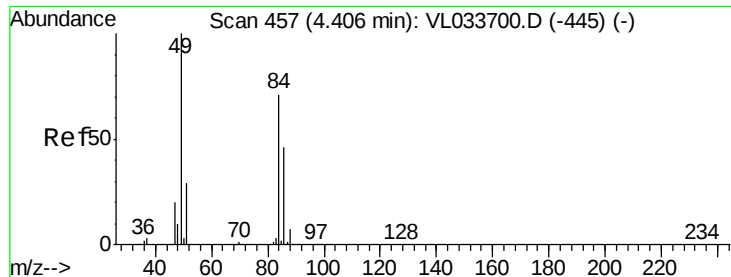
Tgt Ion: 39 Resp: 9387
 Ion Ratio Lower Upper
 39 100
 54 4.2 69.0 103.6#



#19
 Isopropyl Alcohol
 Concen: 0.857 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.01 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

Tgt Ion: 45 Resp: 85309
 Ion Ratio Lower Upper
 45 100
 58 3.3 1.6 2.4#

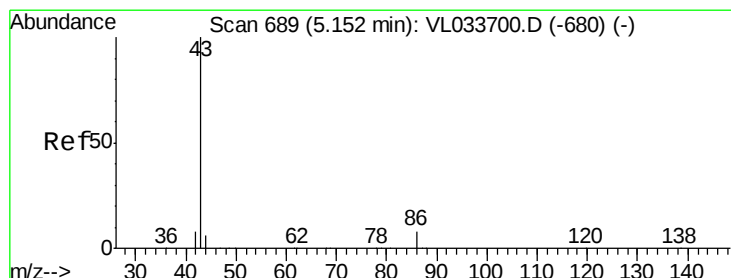
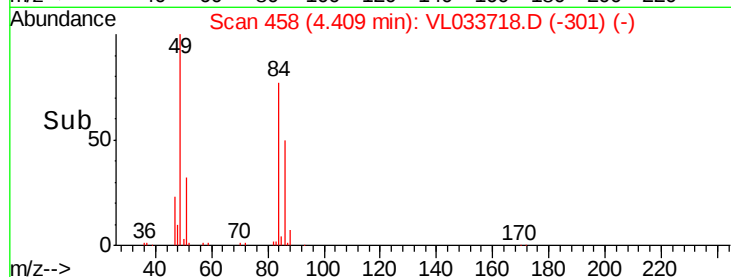
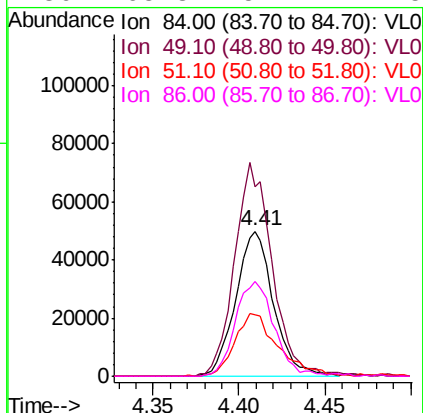
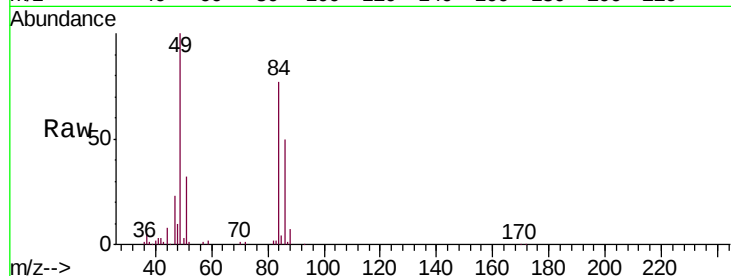




#20
Methylene Chloride
Concen: 1.288 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

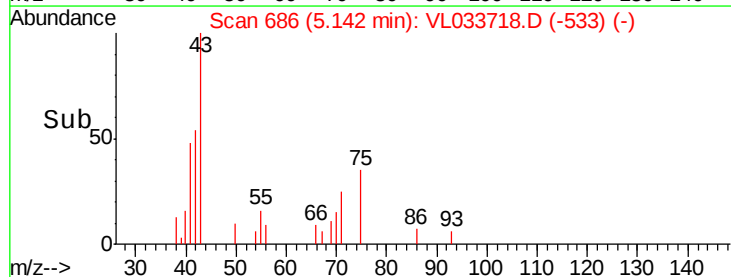
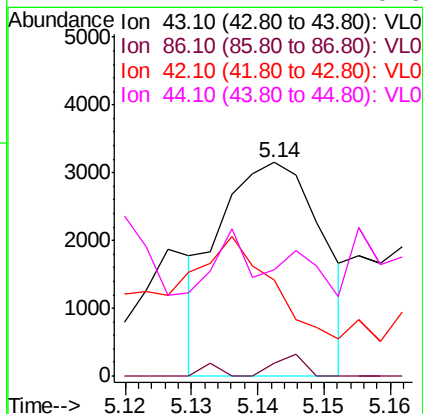
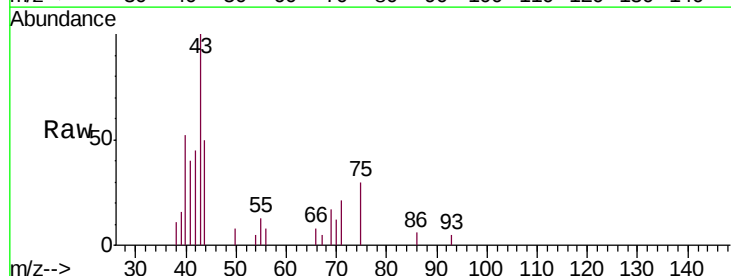
Instrument :
MSVOA_L
ClientSampleId :
S-02DL

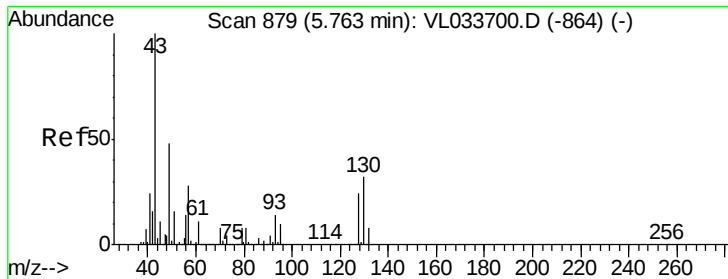
Tgt Ion:	84	Resp:	76543
Ion	Ratio	Lower	Upper
84	100		
49	130.4	112.8	169.2
51	41.1	33.4	50.0
86	65.3	51.7	77.5



#23
Vinyl Acetate
Concen: 0.017 ppbv
RT: 5.14 min Scan# 686
Delta R.T. -0.01 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

Tgt Ion:	43	Resp:	3383
Ion	Ratio	Lower	Upper
43	100		
86	6.4	6.0	9.0
42	28.7	7.5	11.3#
44	11.2	4.4	6.6#





#25

Ethyl Acetate

Concen: 0.114 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleID :

S-02DL

Tgt Ion: 43 Resp: 31026

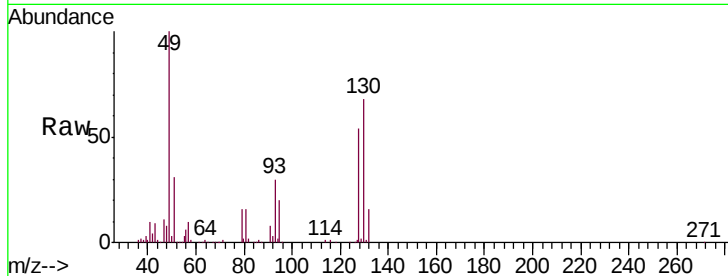
Ion Ratio Lower Upper

43 100

45 4.8 7.9 11.9#

61 2.0 7.7 11.5#

70 3.1 5.8 8.6#

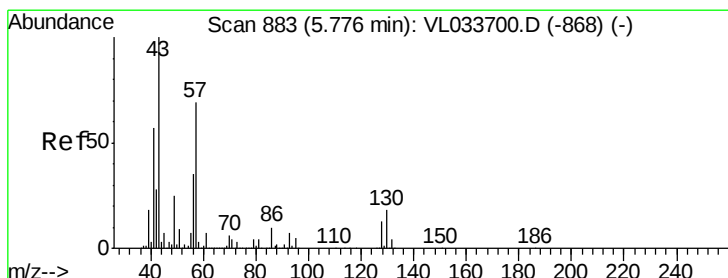
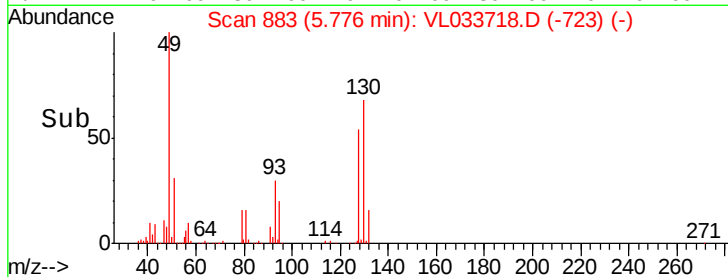
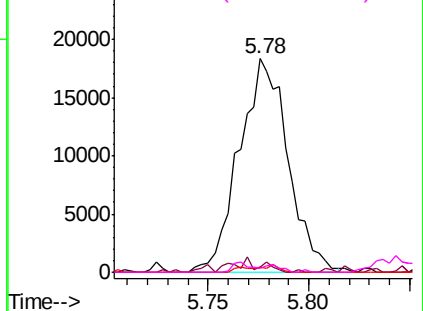


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.336 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Tgt Ion: 57 Resp: 39189

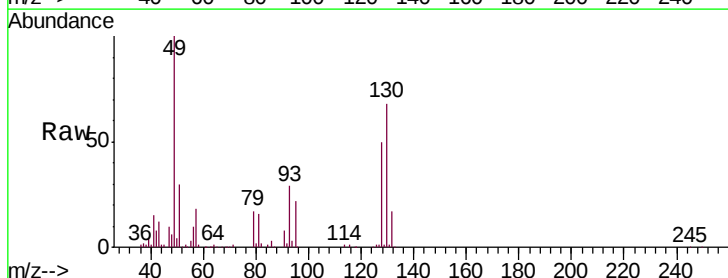
Ion Ratio Lower Upper

57 100

41 94.8 69.8 104.6

43 80.6 181.8 272.6#

56 57.1 42.1 63.1

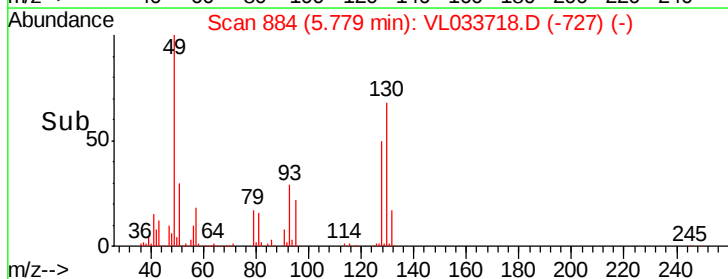
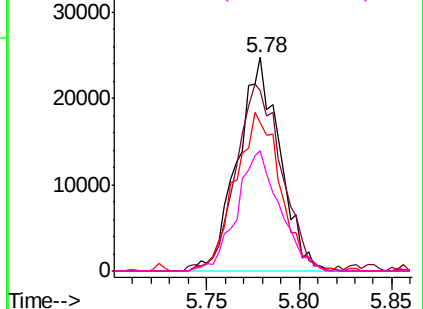


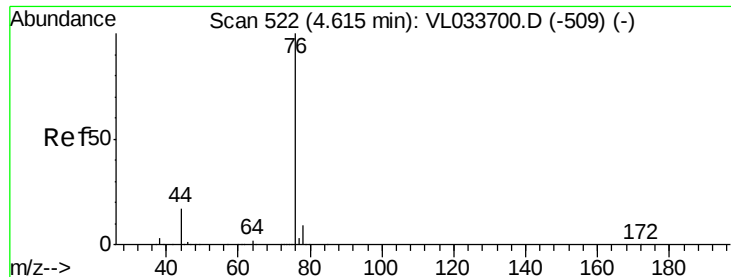
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.127 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.01 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleId :

S-02DL

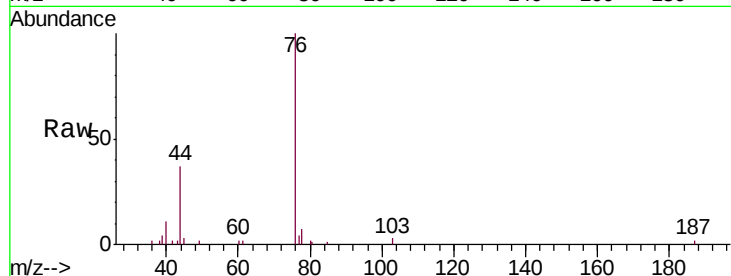
Tgt Ion: 76 Resp: 20258

Ion Ratio Lower Upper

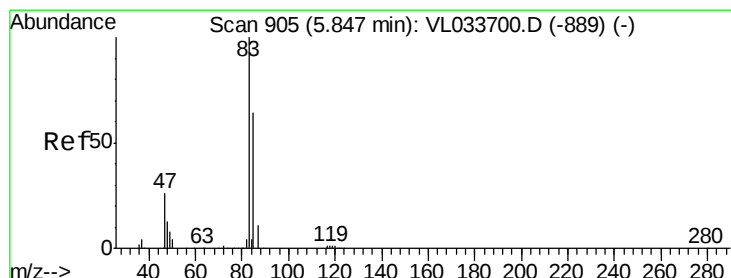
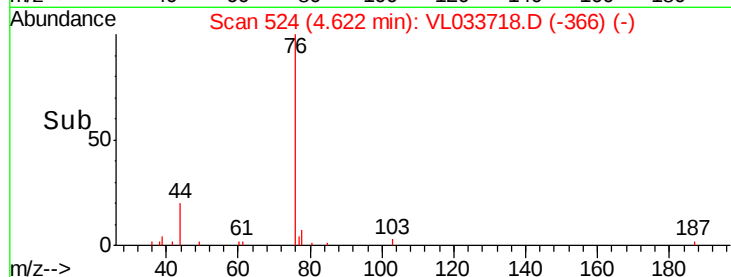
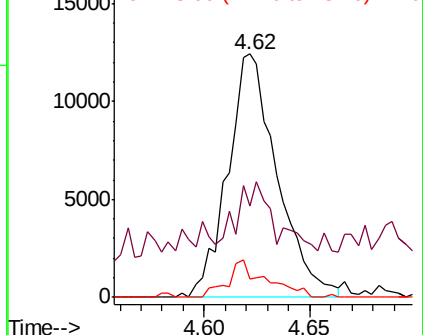
76 100

44 44.3 13.8 20.8#

78 11.7 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.696 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.00 min

Lab File: VL033718.D

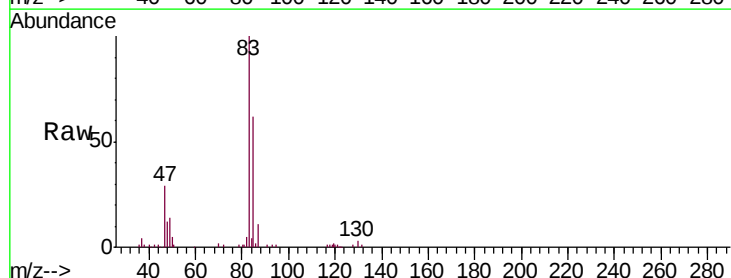
Acq: 17 May 2019 16:02

Tgt Ion: 83 Resp: 149467

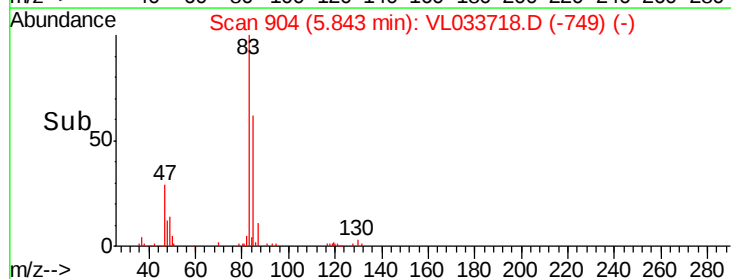
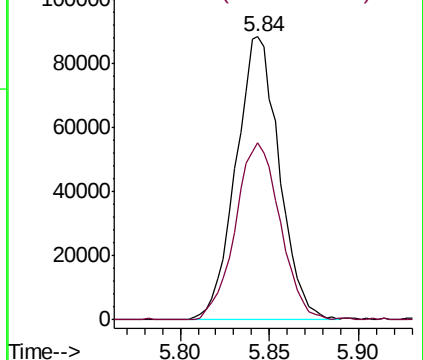
Ion Ratio Lower Upper

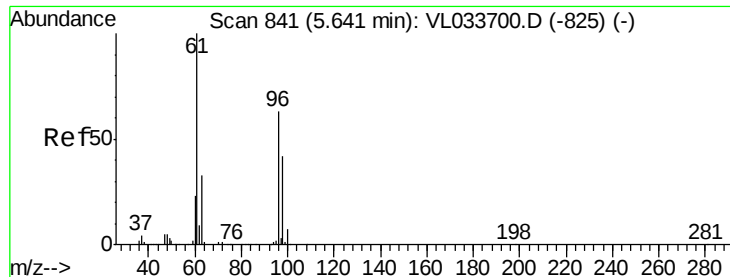
83 100

85 63.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



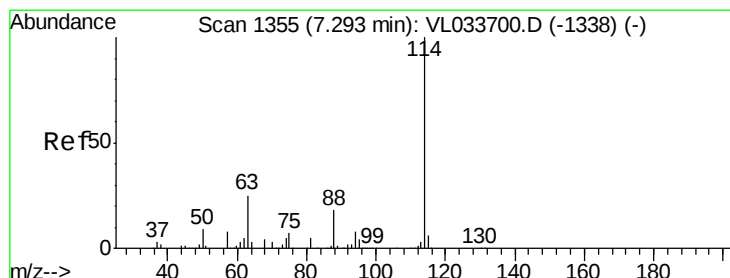
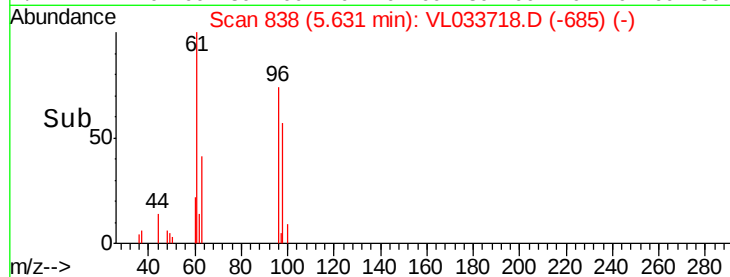
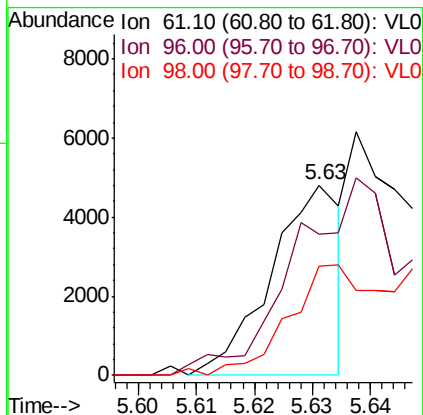
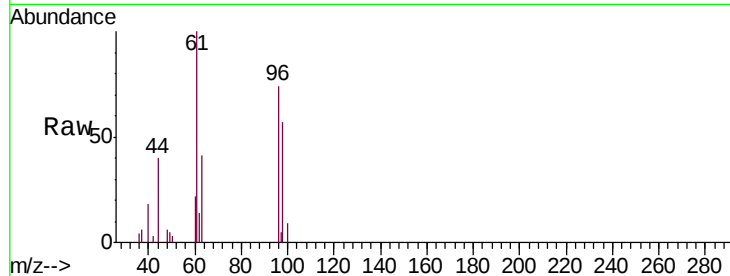


#31

cis-1,2-Dichloroethene
Concen: 0.035 ppbv
RT: 5.63 min Scan# 838
Delta R.T. -0.01 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

Instrument :
MSVOA_L
ClientSampleId :
S-02DL

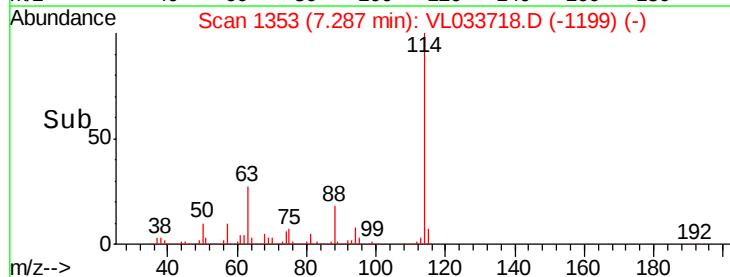
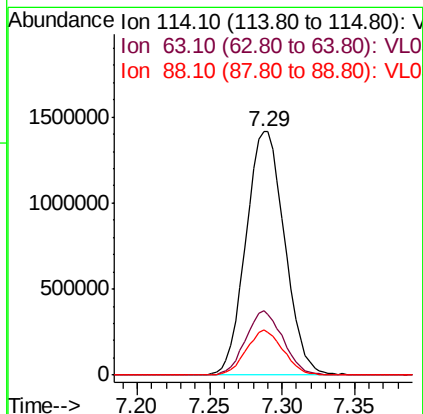
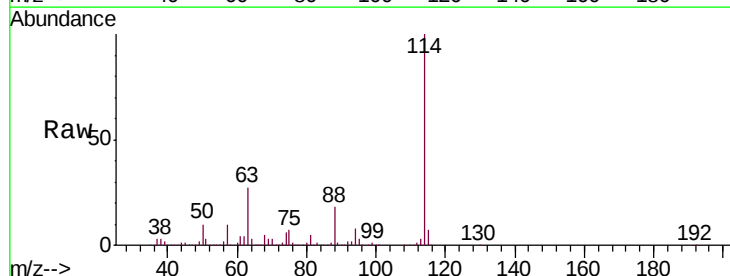
Tgt Ion: 61 Resp: 4040
Ion Ratio Lower Upper
61 100
96 60.3 50.8 76.2
98 47.1 33.3 49.9

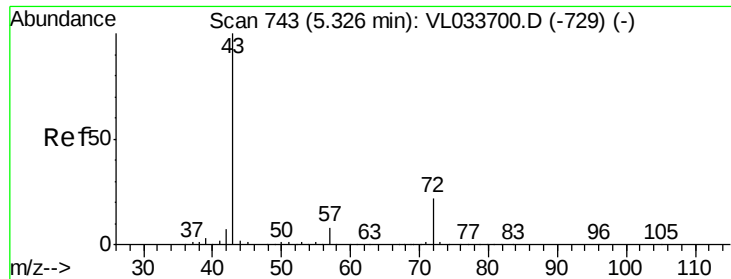


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

Tgt Ion: 114 Resp: 2634851
Ion Ratio Lower Upper
114 100
63 25.5 20.9 31.3
88 17.7 14.3 21.5





#34

2-Butanone

Concen: 0.011 ppbv

RT: 5.33 min Scan# 744

Delta R.T. 0.00 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Instrument :

MSVOA_L

ClientSampleId :

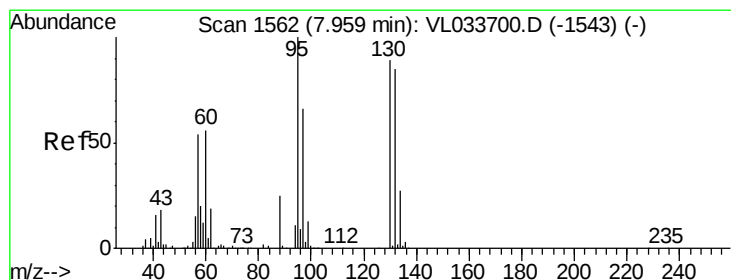
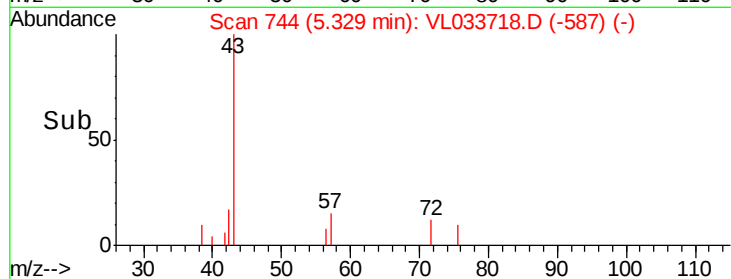
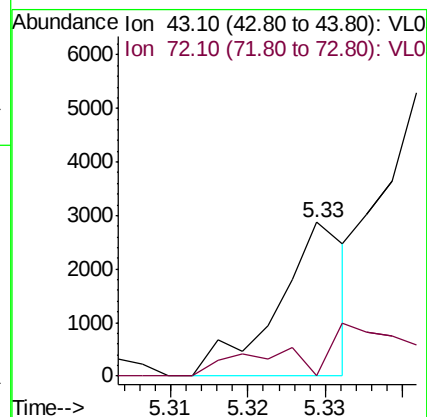
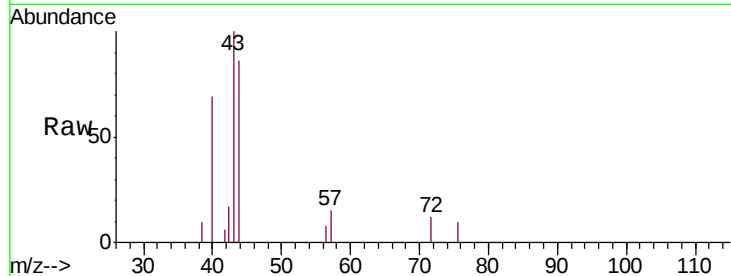
S-02DL

Tgt Ion: 43 Resp: 1782

Ion Ratio Lower Upper

43 100

72 0.0 17.8 26.6#



#38

Trichloroethene

Concen: 0.434 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033718.D

Acq: 17 May 2019 16:02

Tgt Ion: 130 Resp: 38606

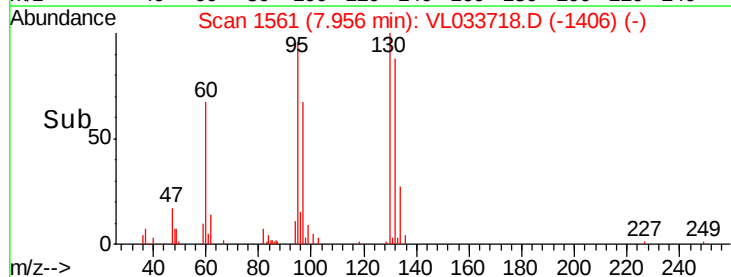
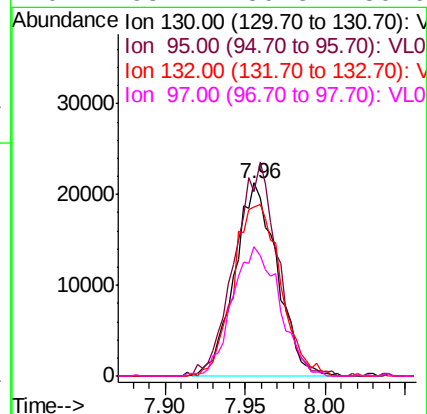
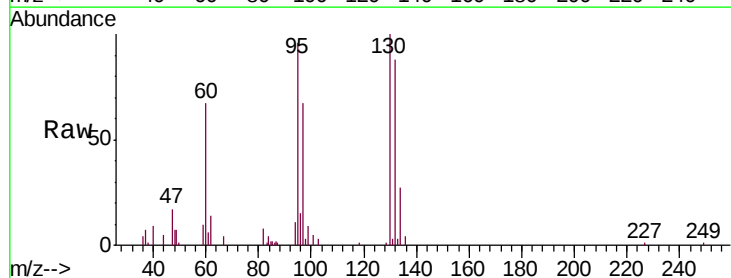
Ion Ratio Lower Upper

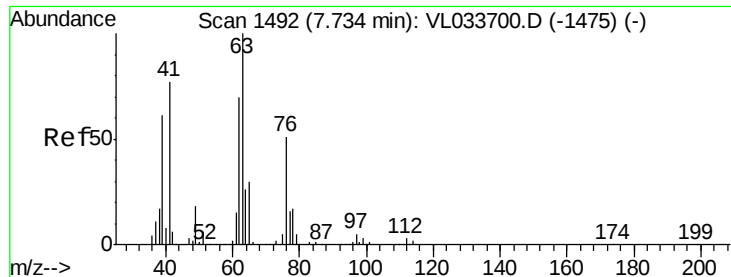
130 100

95 92.7 90.2 135.4

132 85.1 76.4 114.6

97 65.1 59.8 89.6

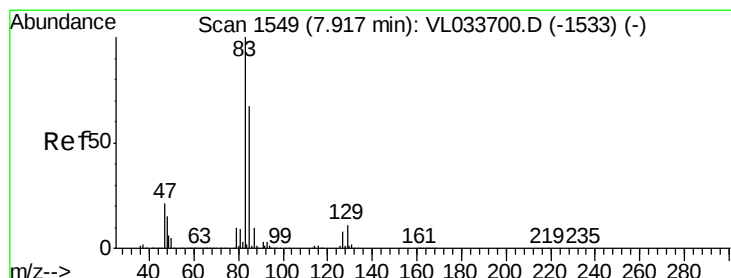
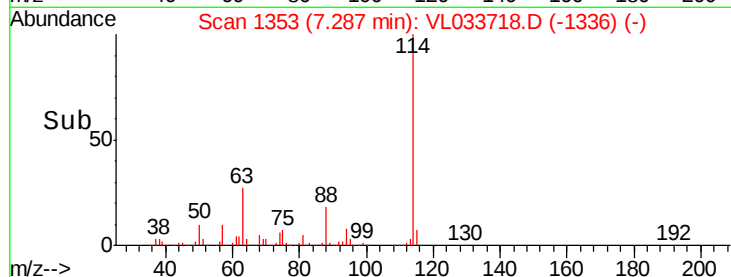
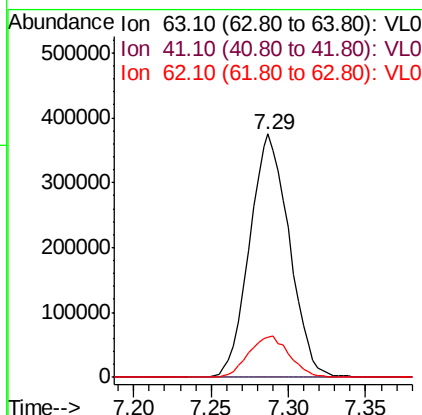
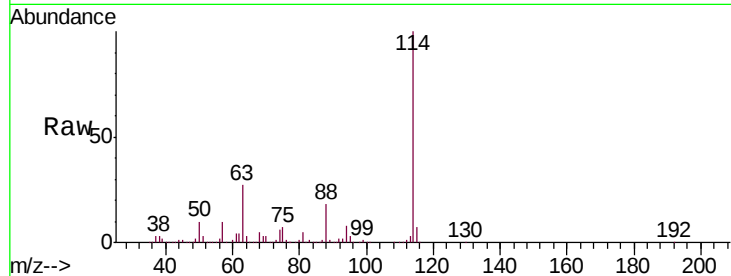




#39
 1,2-Dichloropropane
 Concen: 7.487 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

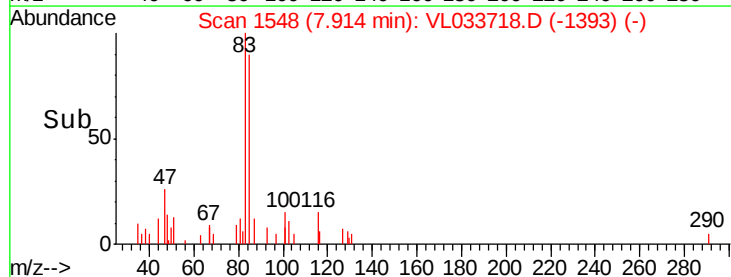
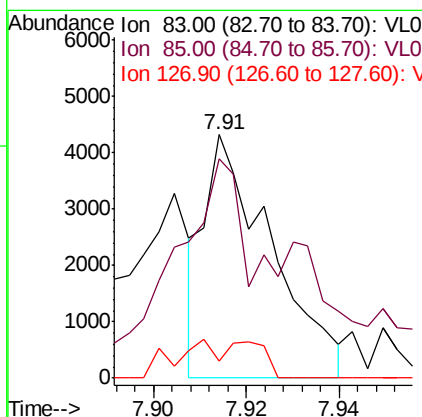
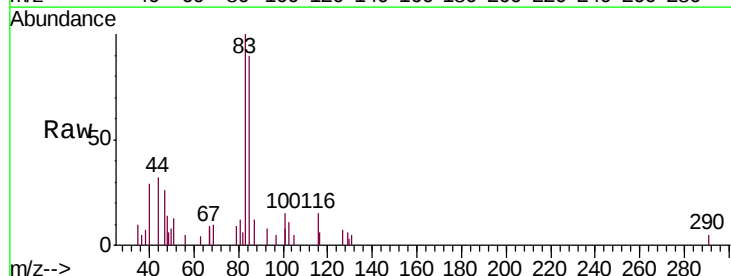
Instrument :
 MSVOA_L
 ClientSampleId :
 S-02DL

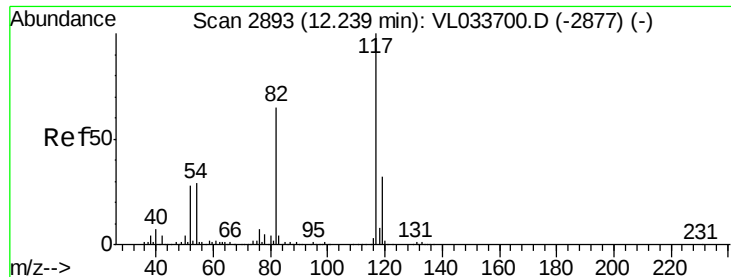
Tgt Ion: 63 Resp: 669064
 Ion Ratio Lower Upper
 63 100
 41 0.1 61.5 92.3#
 62 16.5 56.2 84.4#



#42
 Bromodichloromethane
 Concen: 0.020 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. -0.00 min
 Lab File: VL033718.D
 Acq: 17 May 2019 16:02

Tgt Ion: 83 Resp: 4315
 Ion Ratio Lower Upper
 83 100
 85 72.7 53.3 79.9
 127 8.3 6.5 9.7

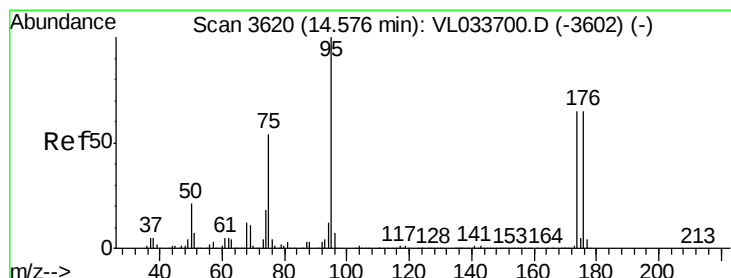
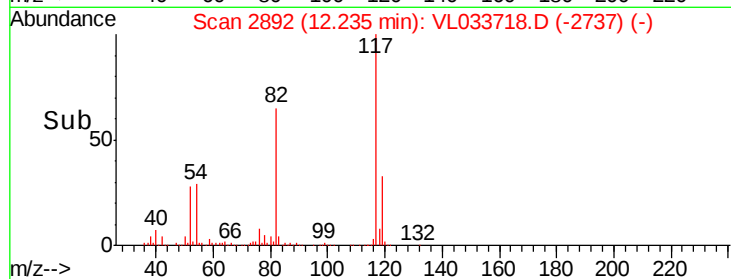
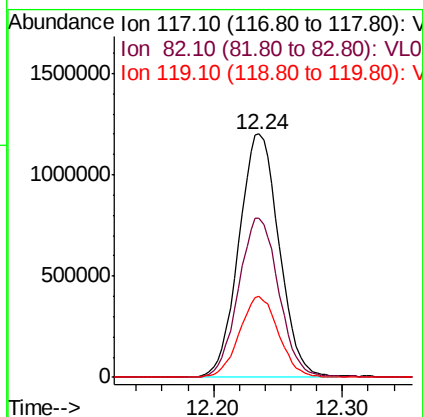
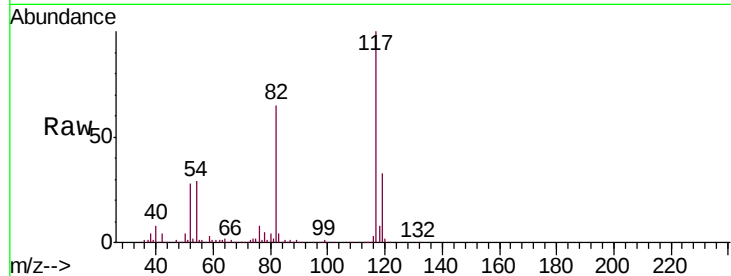




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

Instrument :
MSVOA_L
ClientSampleId :
S-02DL

Tgt Ion: 117 Resp: 2612080
Ion Ratio Lower Upper
117 100
82 65.9 49.4 74.0
119 32.4 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.866 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL033718.D
Acq: 17 May 2019 16:02

Tgt Ion: 95 Resp: 2089258
Ion Ratio Lower Upper
95 100
174 68.0 53.9 80.9
175 4.9 3.8 5.8

