

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071922\
 Data File : VL039488.D
 Acq On : 19 Jul 2022 19:00
 Operator : SY/AP
 Sample : N3750-02DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL

Quant Time: Jul 20 05:39:28 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1205024	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3519423	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3128408	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2364459	10.19	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

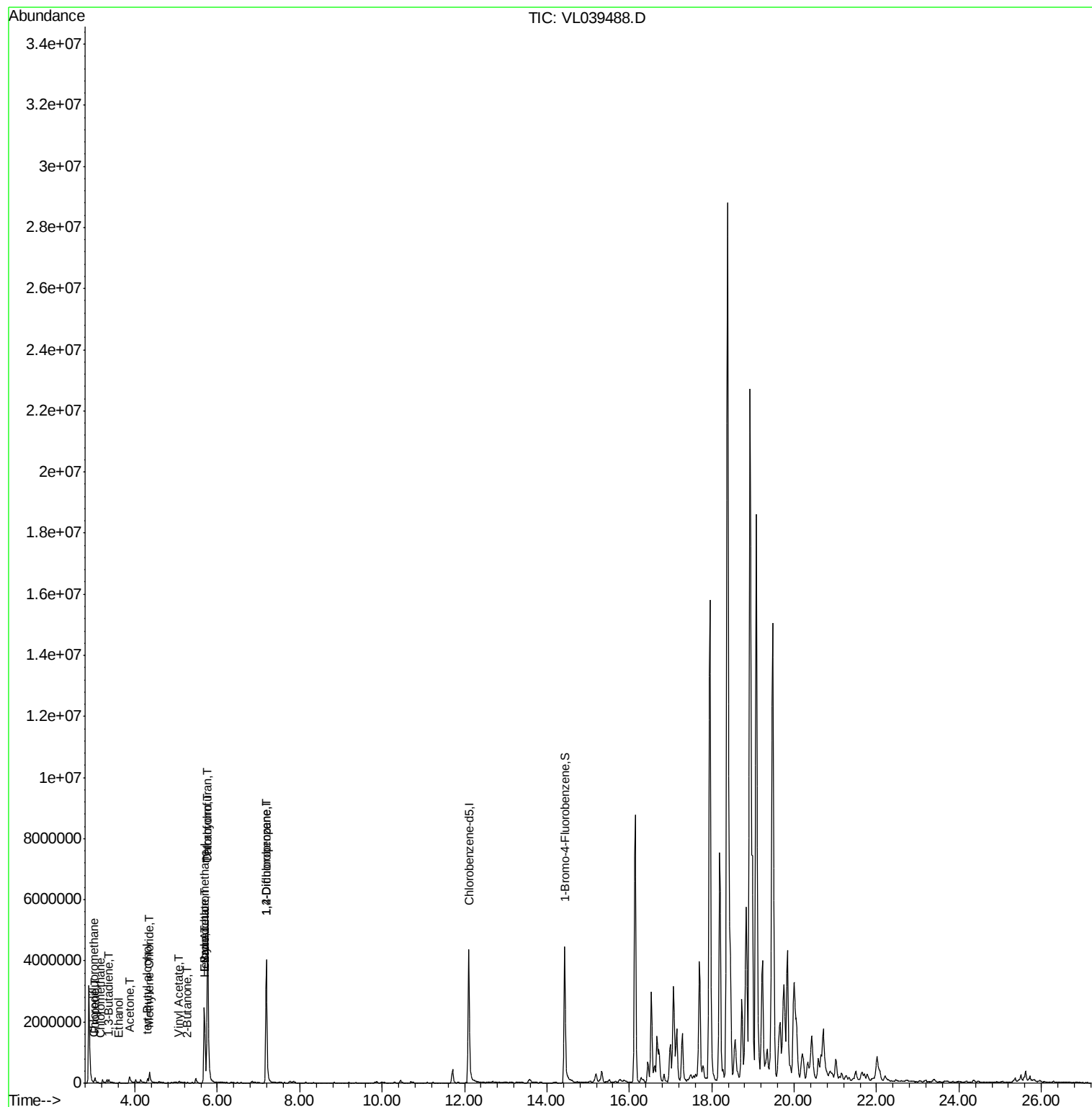
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	5235	0.034	ppbv #	67
4) Chloromethane	3.15	50	3073	0.037	ppbv	95
9) Propene	3.03	41	67242	0.974	ppbv	86
13) Ethanol	3.60	45	659	0.165	ppbv #	23
15) Acetone	3.87	43	272003	1.908	ppbv	94
16) 1,3-Butadiene	3.35	39	2749	0.037	ppbv #	1
17) tert-Butyl alcohol	4.32	59	29874	0.247	ppbv #	45
20) Methylene Chloride	4.35	84	127741	2.248	ppbv	97
23) Vinyl Acetate	5.08	43	18262	0.192	ppbv #	90
25) Ethyl Acetate	5.70	43	226241	0.774	ppbv #	76
26) Hexane	5.70	57	318206	2.700	ppbv #	36
29) Chloroform	5.76	83	4744646	23.156	ppbv	99
34) 2-Butanone	5.27	43	11594	0.065	ppbv #	53
39) 1,2-Dichloropropane	7.19	63	864138	8.492	ppbv #	25
41) Tetrahydrofuran	5.77	42	4741	0.046	ppbv #	1

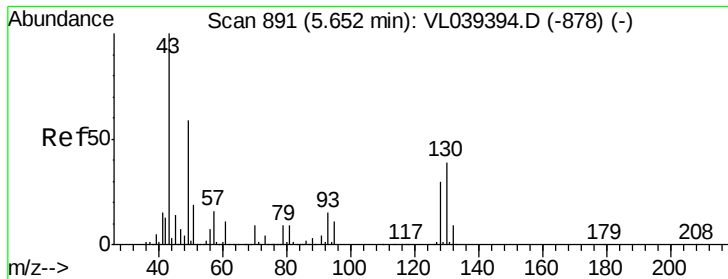
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Jul 2022 19:00 SV-2DL

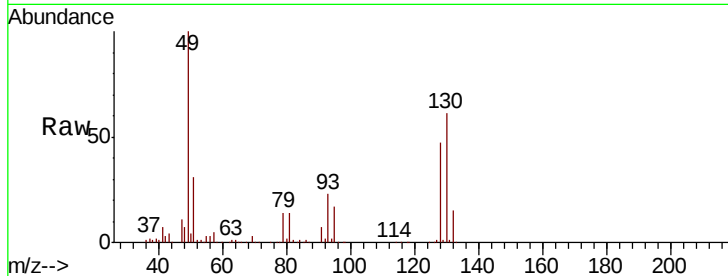
Tot Ion: 49 Resp: 1205024

Ion Ratio Lower Upper

49 100

128 53.5 26.7 80.0

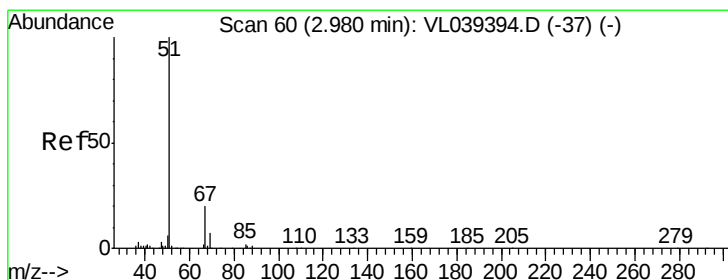
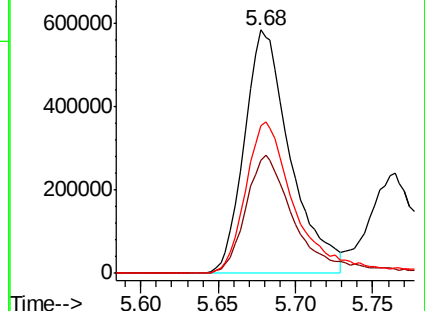
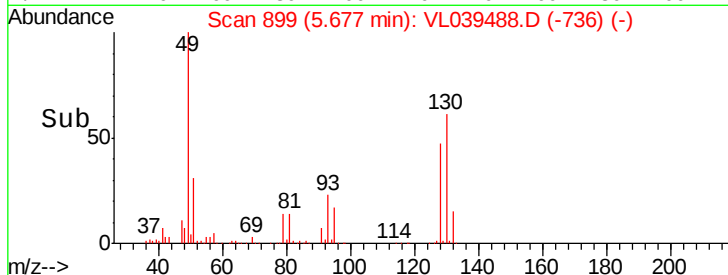
130 69.2 34.3 102.8



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



#3

Chlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL039488.D

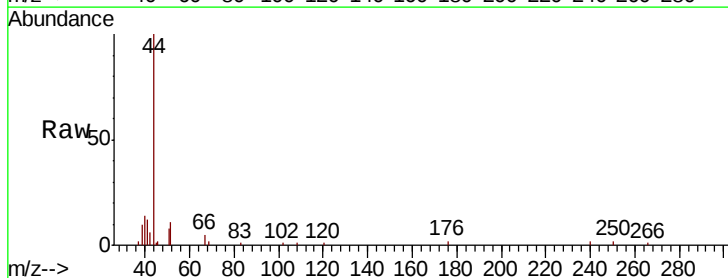
Acq: 19 Jul 2022 19:00

Tgt Ion: 51 Resp: 5235

Ion Ratio Lower Upper

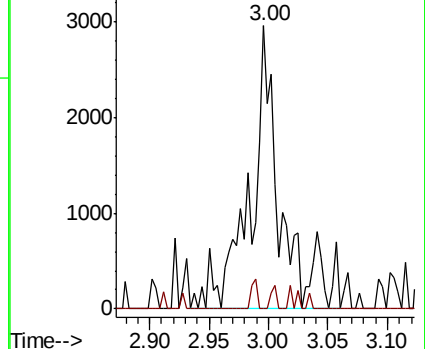
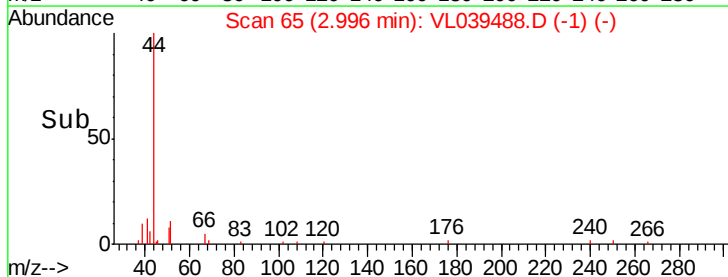
51 100

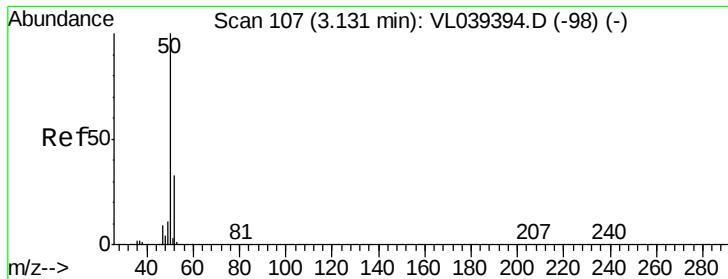
67 4.5 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.037 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

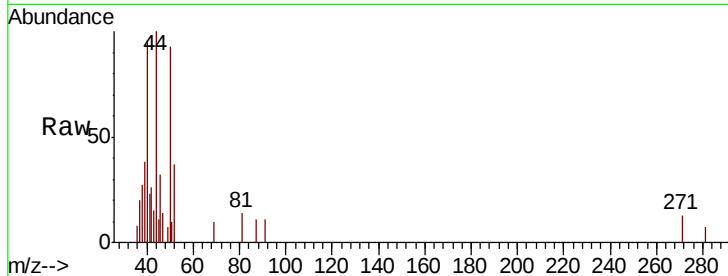
Acq: 19 Jul 2022 19:00 SV-2DL

Tot Ion: 50 Resp: 3073

Ion Ratio Lower Upper

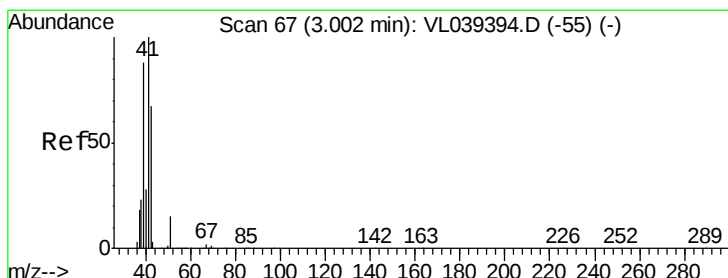
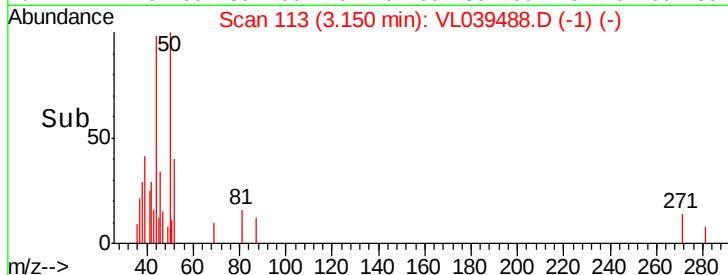
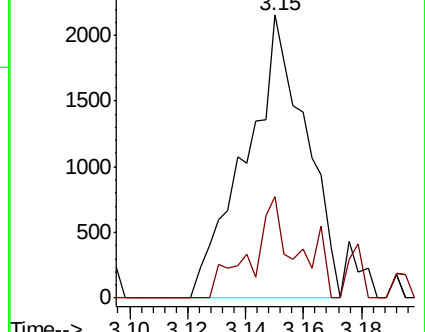
50 100

52 35.7 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.974 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL039488.D

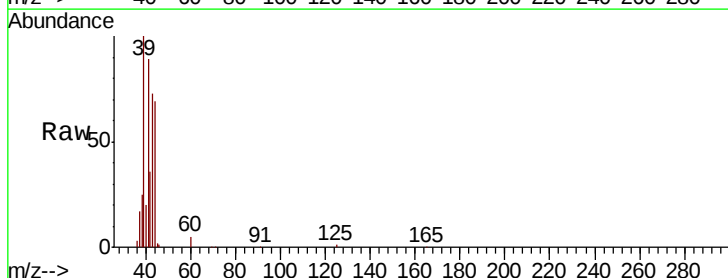
Acq: 19 Jul 2022 19:00

Tgt Ion: 41 Resp: 67242

Ion Ratio Lower Upper

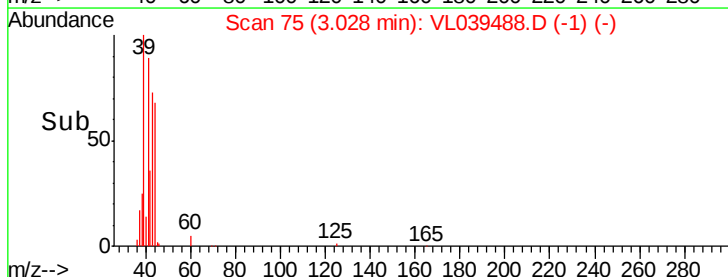
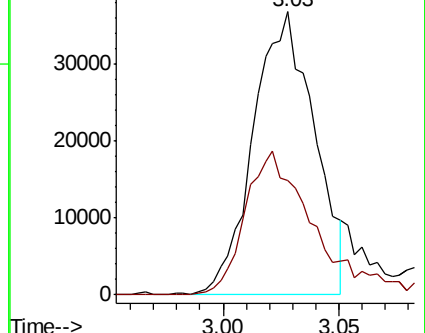
41 100

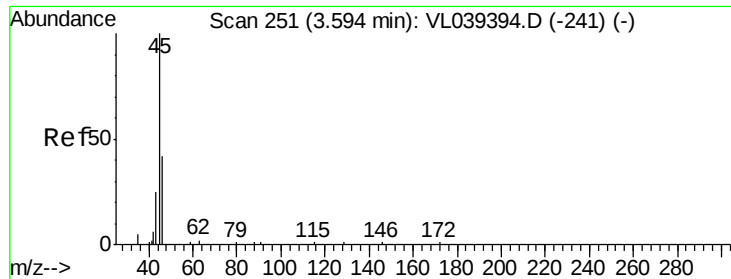
42 57.5 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

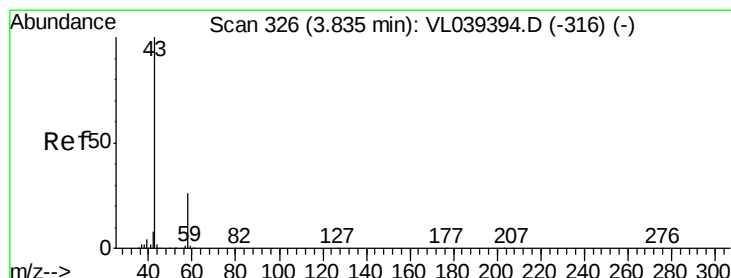
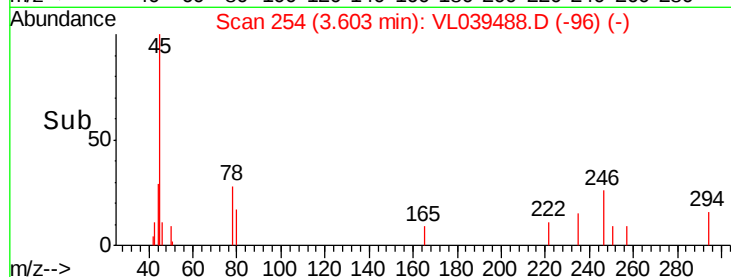
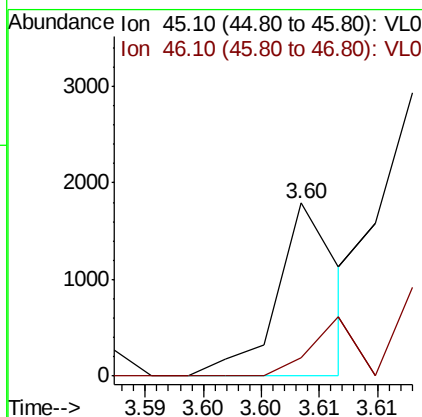
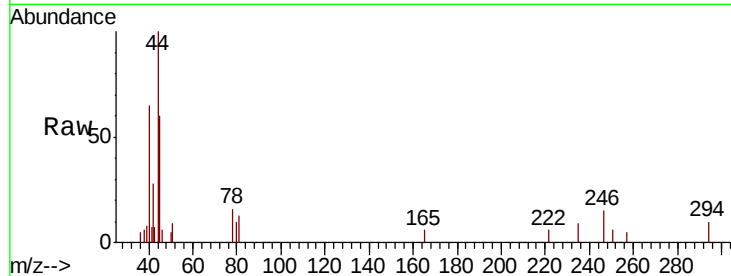
Ion 42.10 (41.80 to 42.80): VL0





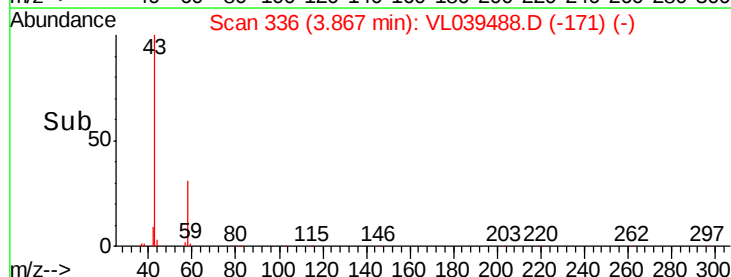
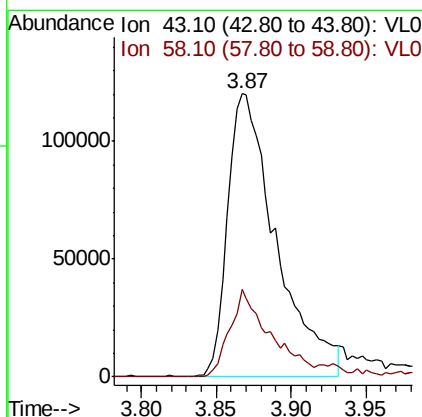
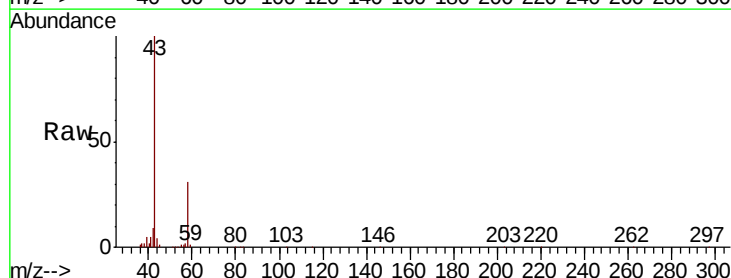
#13
Ethanol
Concen: 0.165 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 19 Jul 2022 19:00

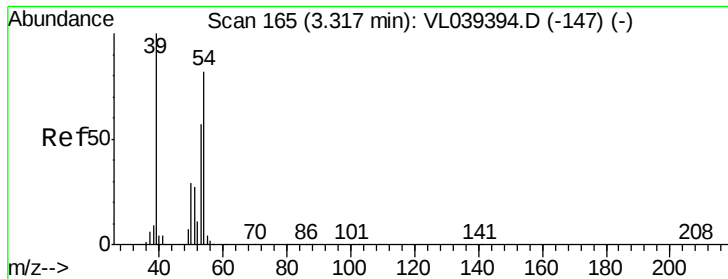
Tot Ion: 45 Resp: 659
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 1.908 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL039488.D
Acq: 19 Jul 2022 19:00

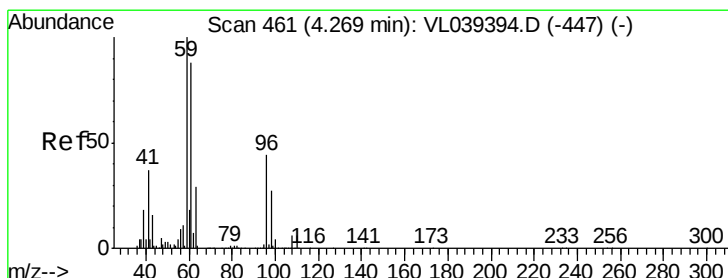
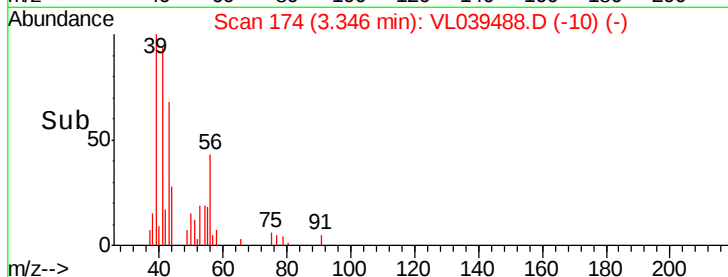
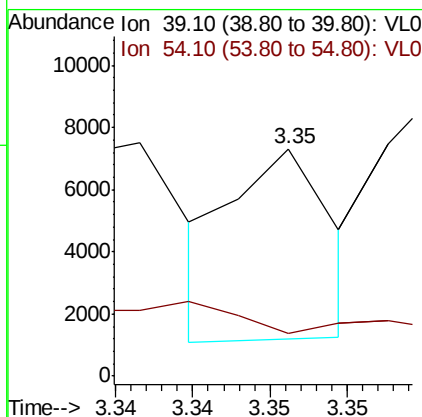
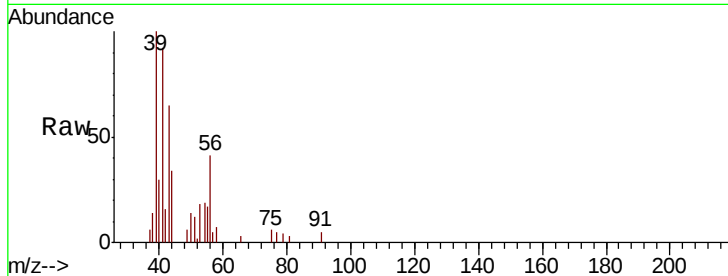
Tgt Ion: 43 Resp: 272003
Ion Ratio Lower Upper
43 100
58 29.2 21.0 31.6





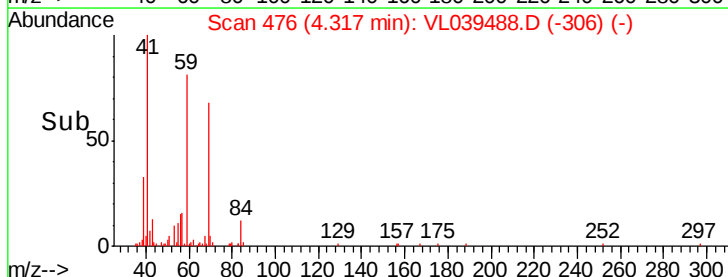
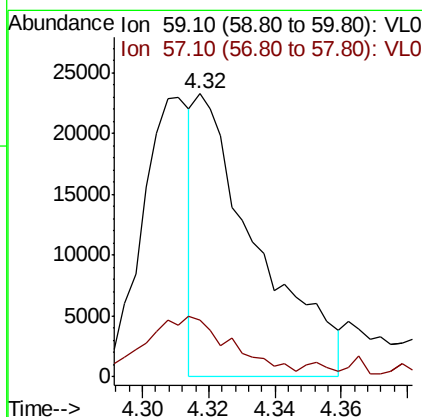
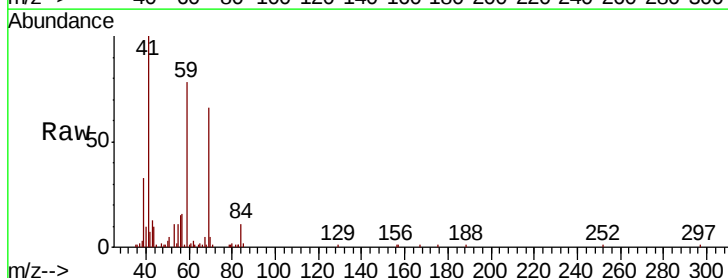
#16
 1,3-Butadiene
 Concen: 0.037 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 19 Jul 2022 19:00

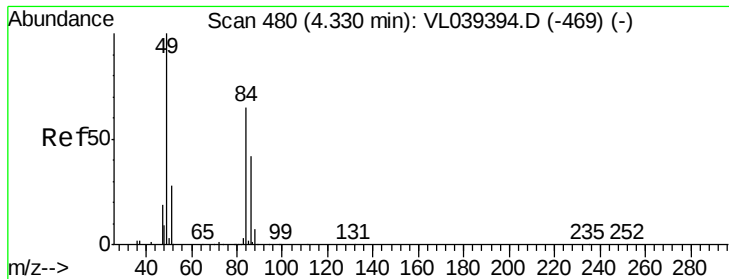
Tot Ion: 39 Resp: 2749
 Ion Ratio Lower Upper
 39 100
 54 218.9 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.247 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.05 min
 Lab File: VL039488.D
 Acq: 19 Jul 2022 19:00

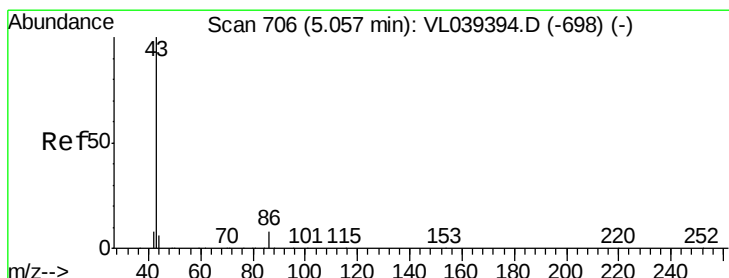
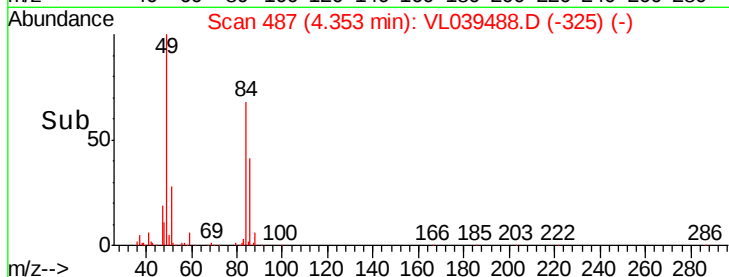
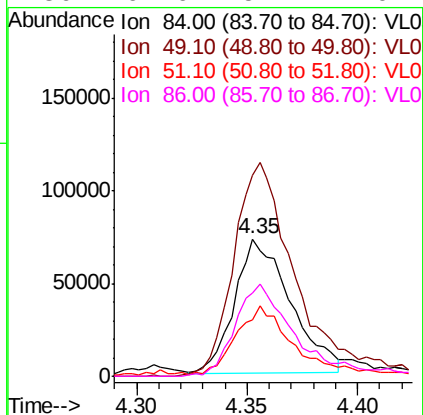
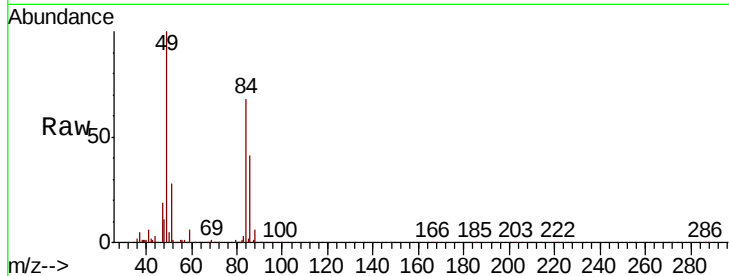
Tgt Ion: 59 Resp: 29874
 Ion Ratio Lower Upper
 59 100
 57 31.9 8.7 13.1#





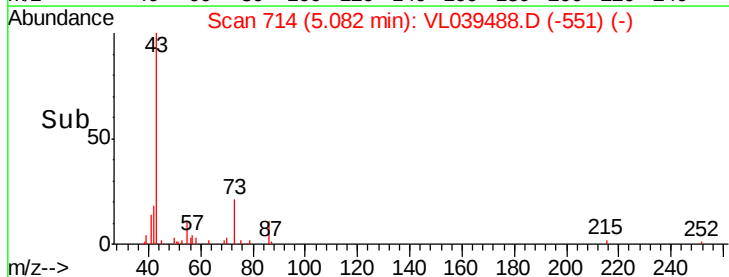
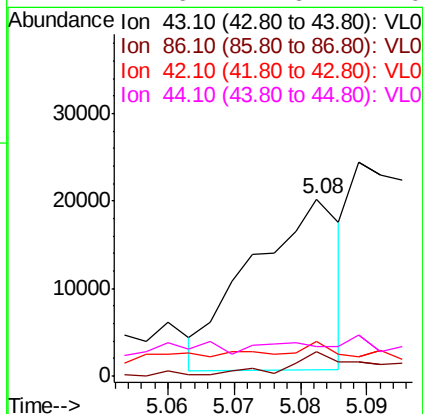
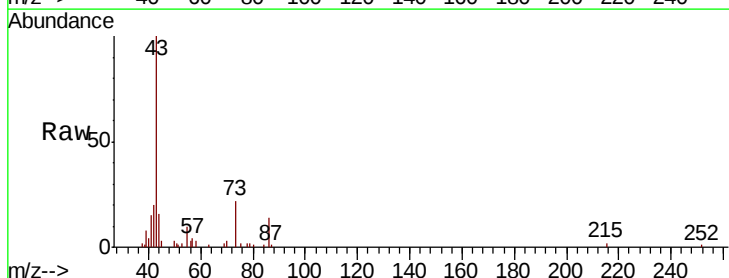
#20
Methvlene Chloride
Concen: 2.248 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-2DL
Acq: 19 Jul 2022 19:00

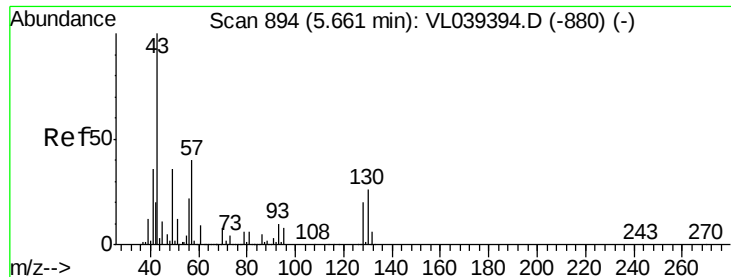
Tot Ion:	84	Resp:	127741
Ion	Ratio	Lower	Upper
84	100		
49	149.1	123.1	184.7
51	40.8	34.4	51.6
86	61.6	51.1	76.7



#23
Vinyl Acetate
Concen: 0.192 ppbv
RT: 5.08 min Scan# 714
Delta R.T. 0.03 min
Lab File: VL039488.D
Acq: 19 Jul 2022 19:00

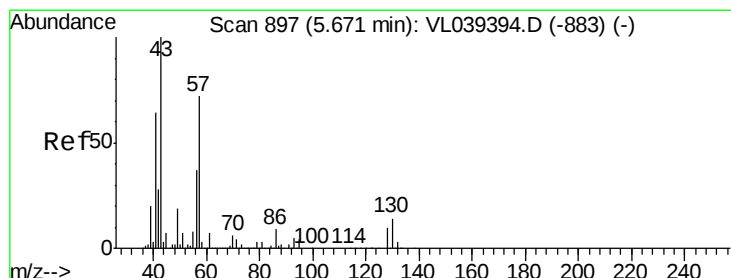
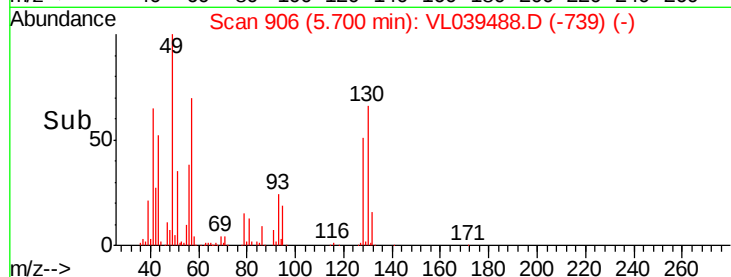
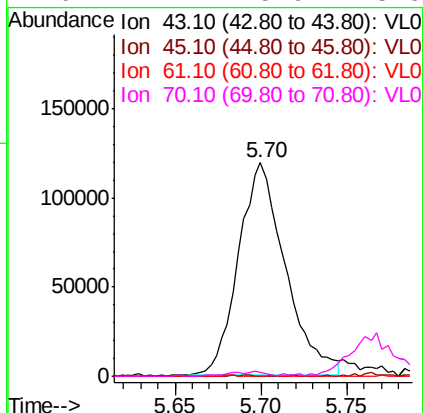
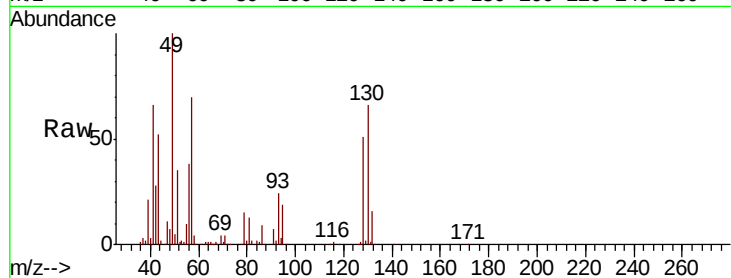
Tgt Ion:	43	Resp:	18262
Ion	Ratio	Lower	Upper
43	100		
86	13.8	5.0	7.6#
42	7.5	7.7	11.5#
44	4.6	4.6	7.0#





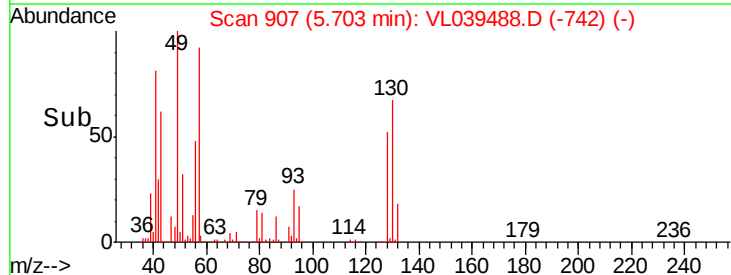
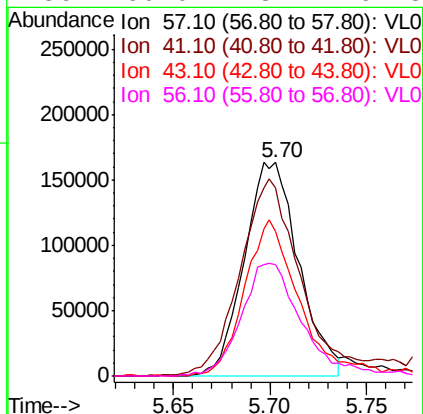
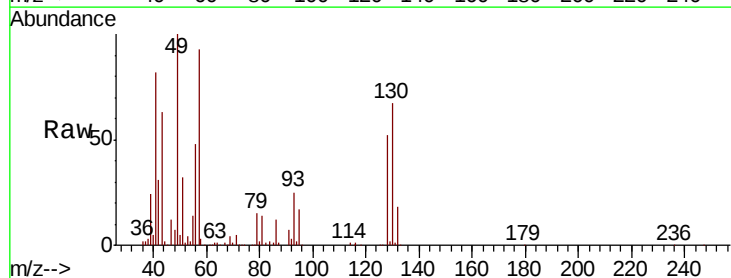
#25
Ethyl Acetate
Concen: 0.774 ppbv
RT: 5.70 min
Delta R.T.: 0.03 min
Lab File: VL039488.D
Acq: 19 Jul 2022 19:00

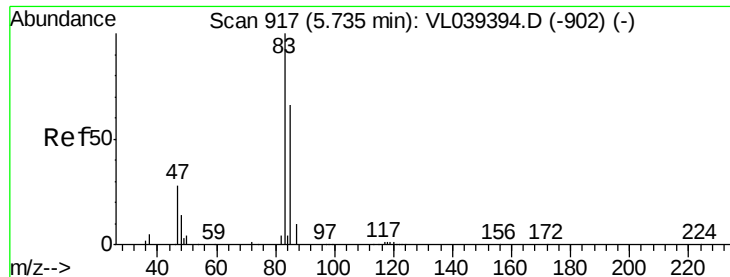
Tot Ion:	43	Resp:	226241
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.4#
61	0.3	8.3	12.5#
70	2.4	5.9	8.9#



#26
Hexane
Concen: 2.700 ppbv
RT: 5.70 min Scan# 907
Delta R.T.: 0.03 min
Lab File: VL039488.D
Acq: 19 Jul 2022 19:00

Tgt Ion:	57	Resp:	318206
Ion	Ratio	Lower	Upper
57	100		
41	112.7	76.9	115.3
43	77.1	191.0	286.6#
56	60.0	43.2	64.8





#29

Chloroform

Concen: 23.156 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

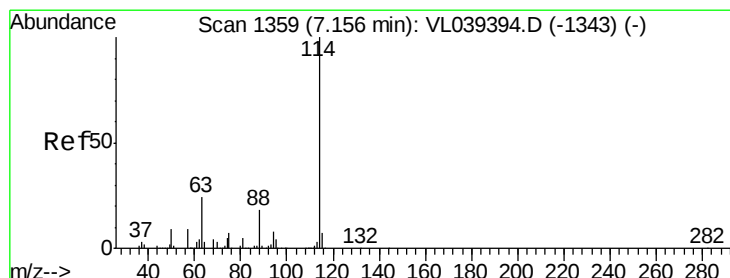
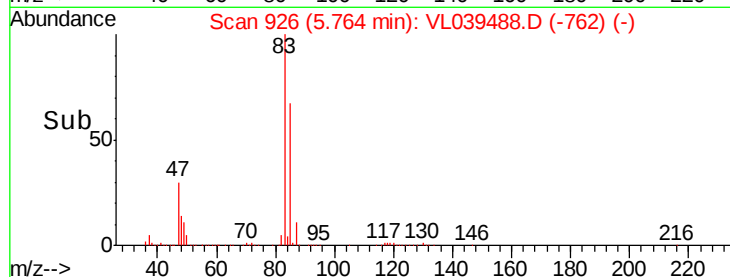
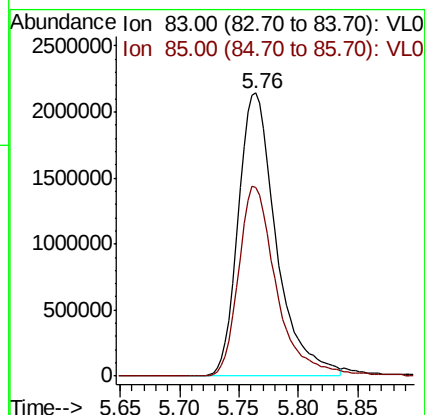
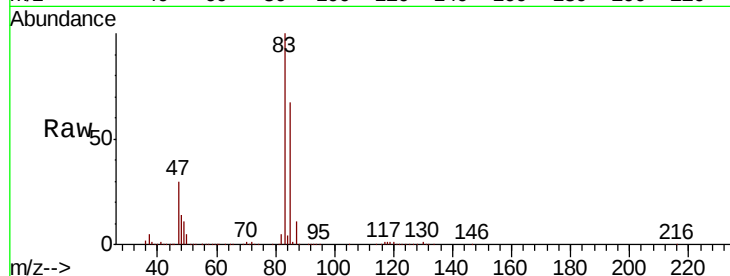
Acq: 19 Jul 2022 19:00 SV-2DL

Tot Ion: 83 Resp: 4744646

Ion Ratio Lower Upper

83 100

85 66.6 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.03 min

Lab File: VL039488.D

Acq: 19 Jul 2022 19:00

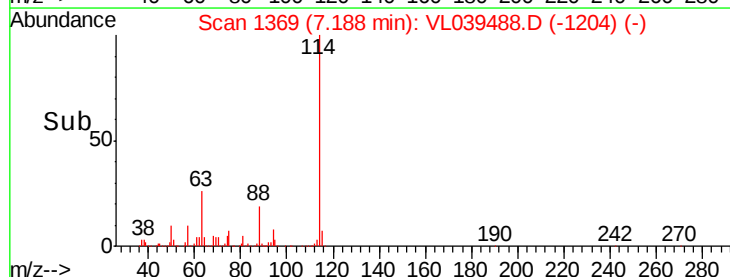
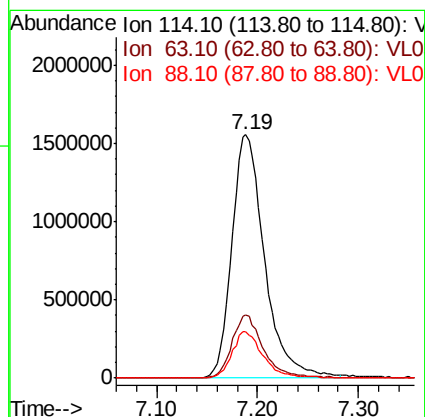
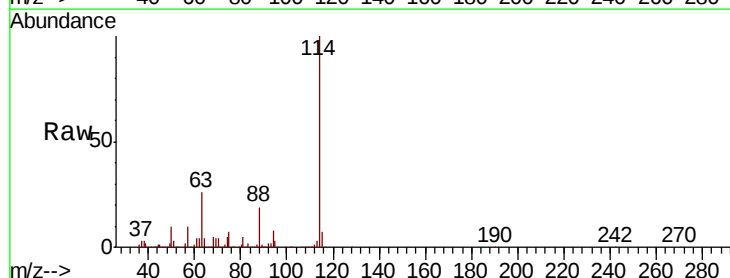
Tgt Ion: 114 Resp: 3519423

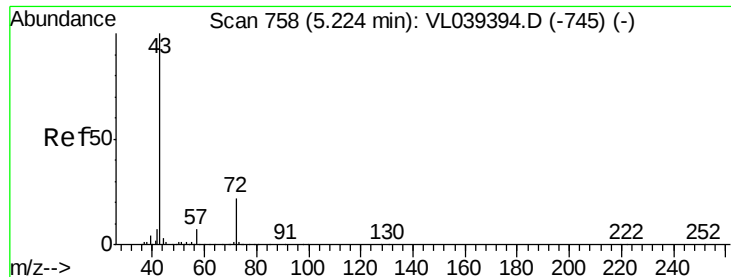
Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.4

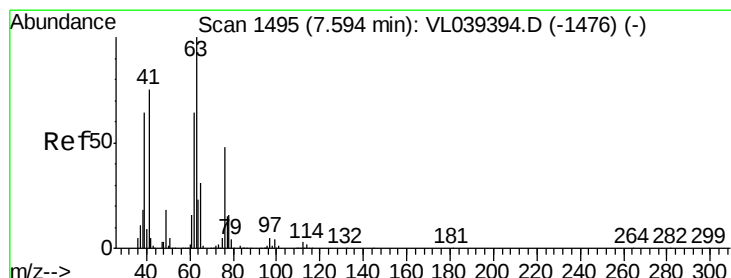
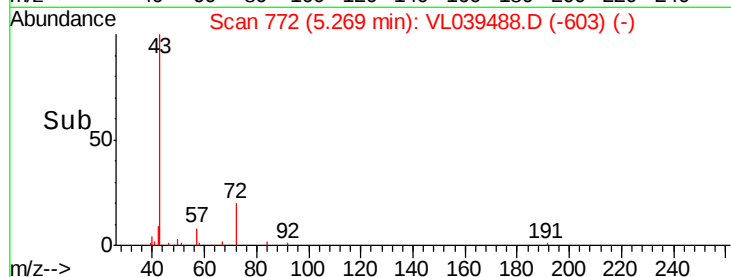
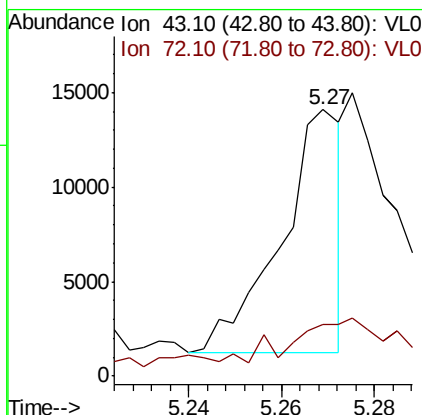
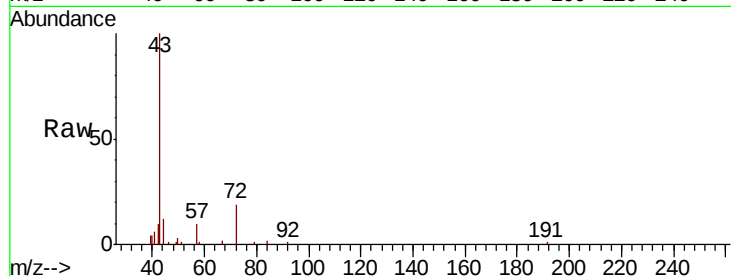
88 18.5 14.5 21.7





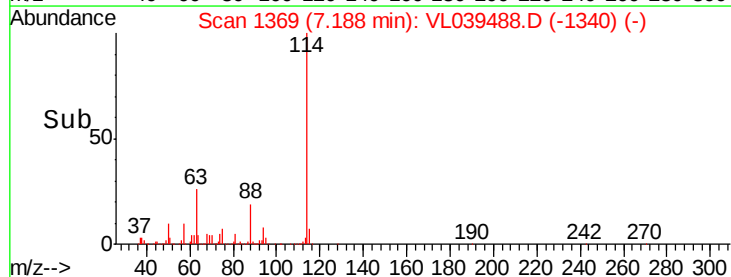
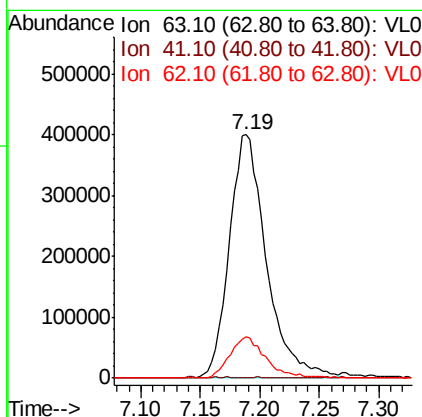
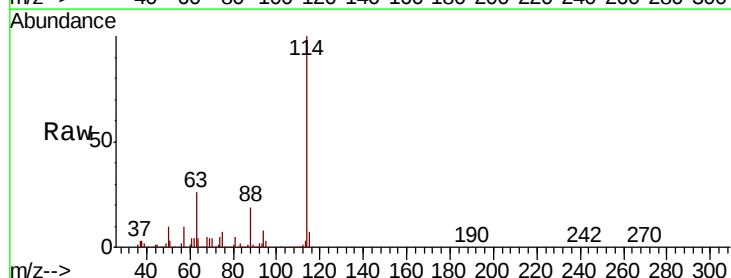
#34
 2-Butanone
 Concen: 0.065 ppbv
 RT: 5.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 19 Jul 2022 19:00

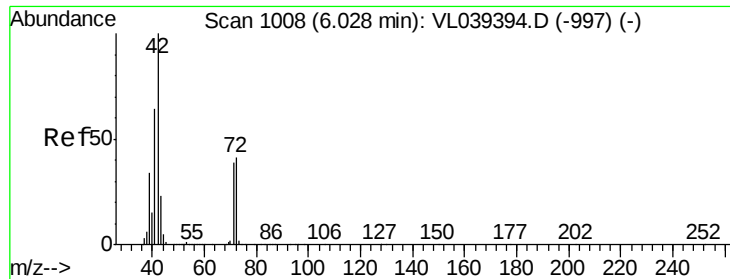
Tot Ion: 43 Resp: 11594
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.9 26.9#



#39
 1,2-Dichloropropane
 Concen: 8.492 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.41 min
 Lab File: VL039488.D
 Acq: 19 Jul 2022 19:00

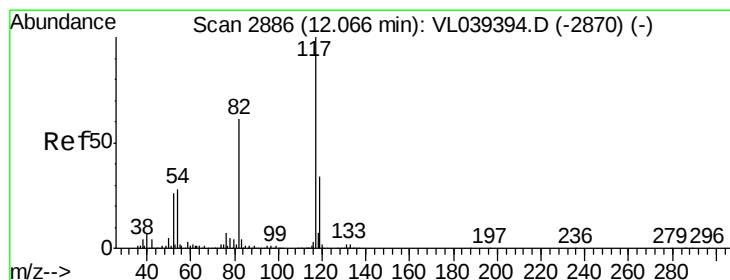
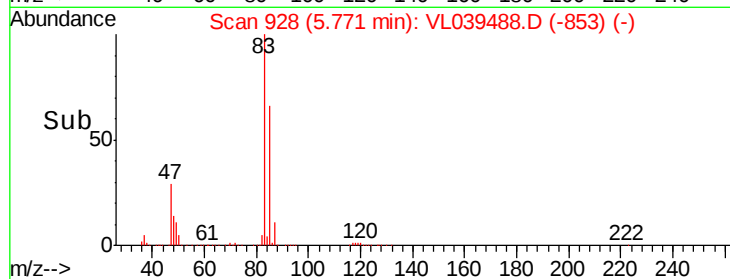
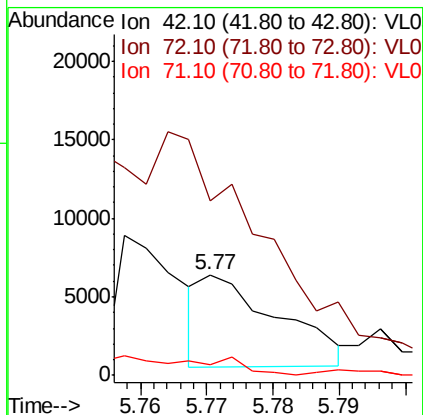
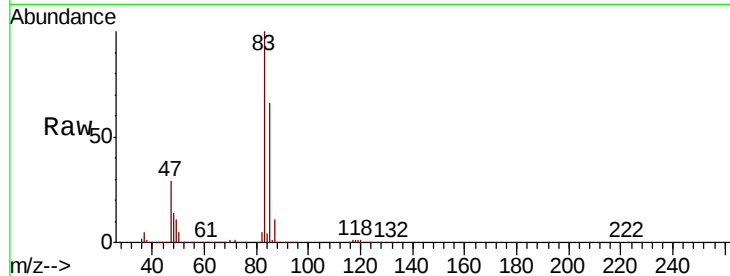
Tgt Ion: 63 Resp: 864138
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.6 89.4#
 62 17.0 51.4 77.0#





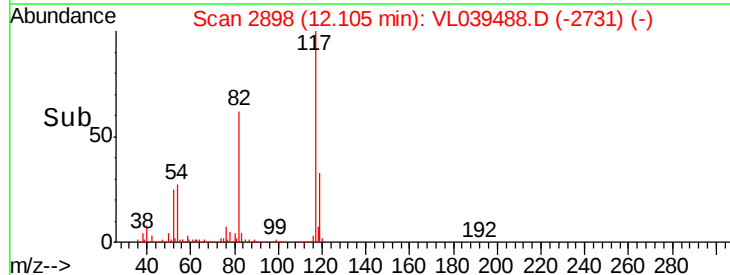
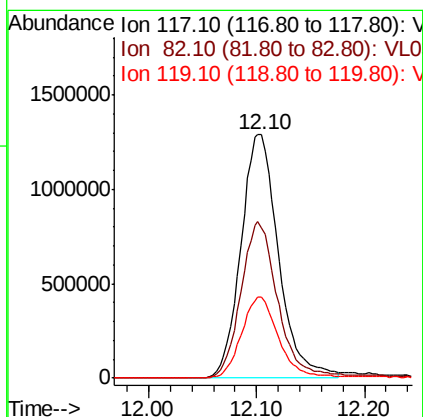
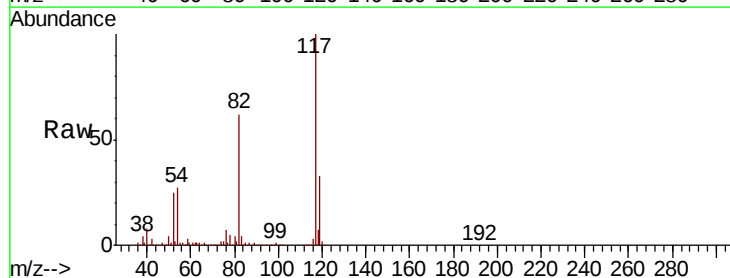
#41
Tetrahydrofuran
Concen: 0.046 ppbv
RT: 5.77
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Jul 2022 19:00

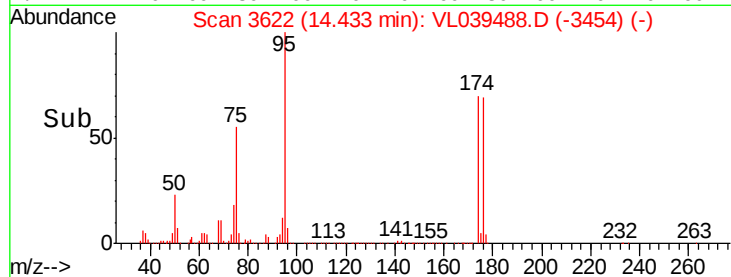
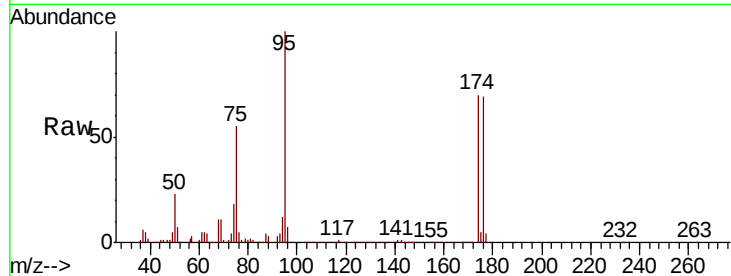
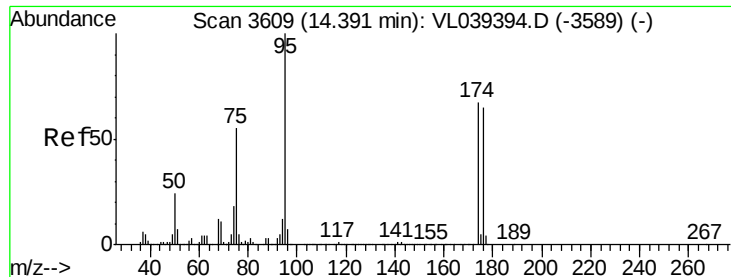
Tot Ion	42	Resp	4741
Ion	Ratio	Lower	Upper
42	100		
72	692.8	31.8	47.8#
71	0.0	31.8	47.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.04 min
Lab File: VL039488.D
Acq: 19 Jul 2022 19:00

Tgt Ion	117	Resp	3128408
Ion	Ratio	Lower	Upper
117	100		
82	65.2	50.8	76.2
119	33.6	24.1	36.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.188 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV-2DL

Acq: 19 Jul 2022 19:00

Tot Ion: 95 Resp: 2364459

Ion Ratio Lower Upper

95 100

174 74.2 55.9 83.9

175 5.6 4.2 6.4

